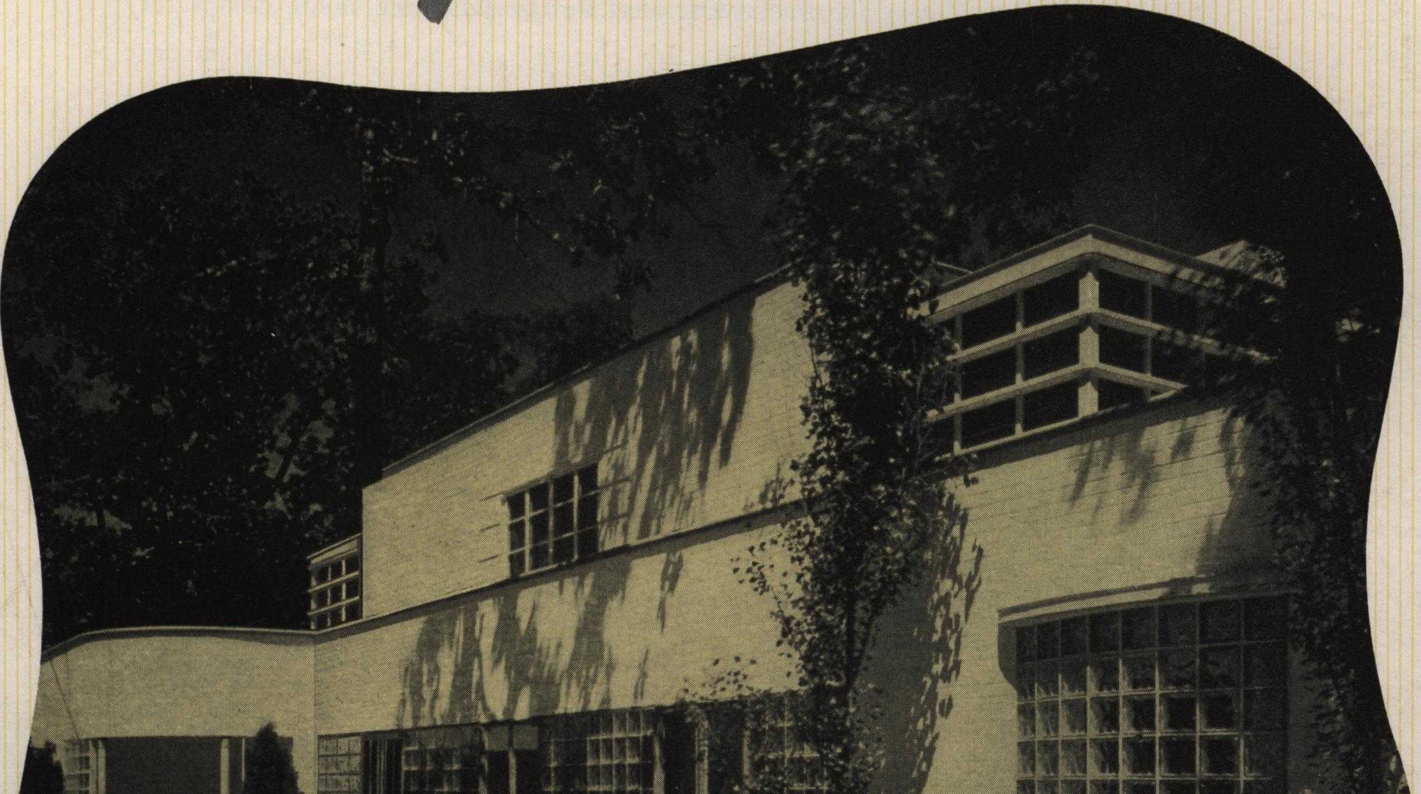
A.I.A. FILE NO. 10-F

MORE LIGHT • MORE BEAUTY • MORE COMFORT

IN YOUR HOME WITH PC Glass Blocks



PITTSBURGH
PC
CORNING
®

PC GLASS BLOCKS... the mark of a modern home!

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Plan for a Charming, Modern Home

WHETHER you are planning to build a new home or to remodel an old one, you are doubtless thinking of a smart, modern house. And you will want one whose handsome outer aspect implies a tasteful, cheery interior, conveniently arranged for gracious living. Your home can be modern without being modernistic. Many a home of conventional design has been made completely charming by the use of modern, many-purpose materials. In the following pages you will find pictures and descriptions of typical installations of the modern building material of countless uses, PC Glass Blocks.

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PC GLASS BLOCKS

THE MARK OF A
MODERN
HOME

PC Glass Blocks

THE MARK OF A MODERN HOME

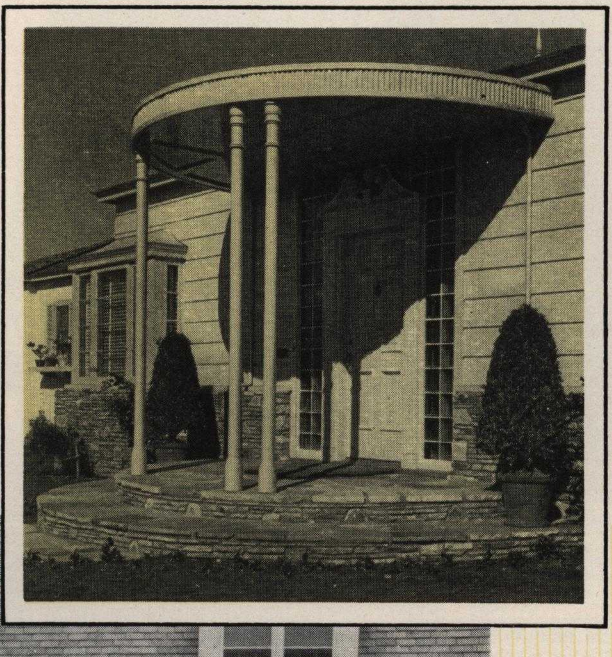
Plenty of bright, cheerful daylight is a prime requisite in a modern home. And with PC Glass Blocks you get floods of diffused light — and more.

Panels of glass blocks are a distinctly decorative feature for every room in the house. In outer openings they have definite insulating properties which aid in heating and air conditioning, prevent chilling drafts, dampen disturbing noises, cut off unpleasant views, insure privacy where it is most desired.

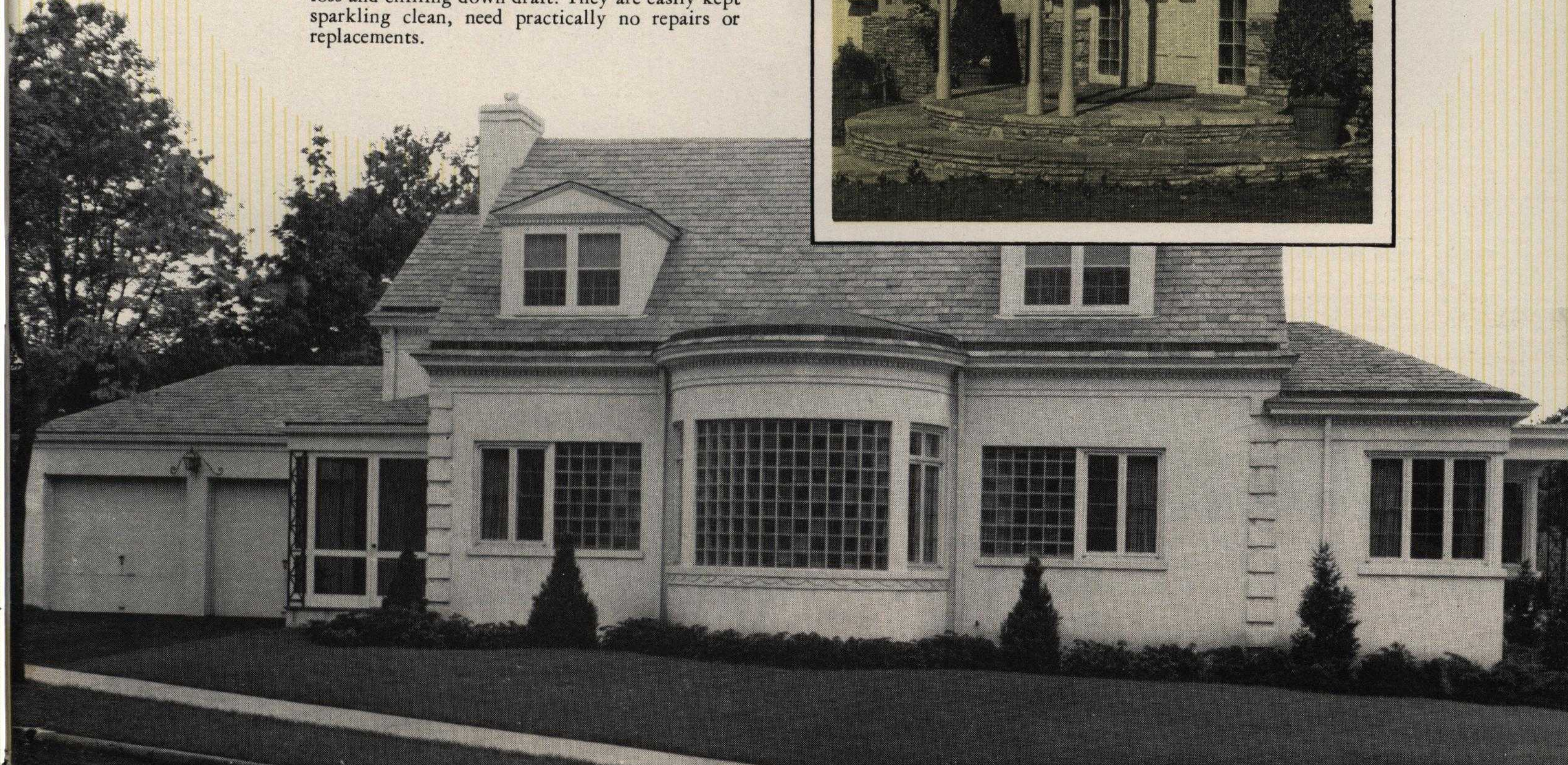
Inside the home, partitions and screens of PC Glass Blocks add a smart, modern touch to the rooms they divide, yet provide plenty of light to show your decorative scheme to the best advantage.

Made of a special kind of glass, PC Glass Blocks are hollow. They are made of two formed pieces of glass, fused together to leave an insulating air space between, with a joint that is as strong as the block itself. PC Glass Blocks eliminate troublesome window sash, need no paint, seldom if ever need repairs or replacements, are easily kept sparkling clean. So you also effect some worth-while economies when you use PC Glass Blocks.

PANELS OF PC GLASS BLOCKS around this entrance door insure plenty of clear daylight for foyer or hall. They glow with cheerful welcome to evening guests, harmonize with any style of architecture.

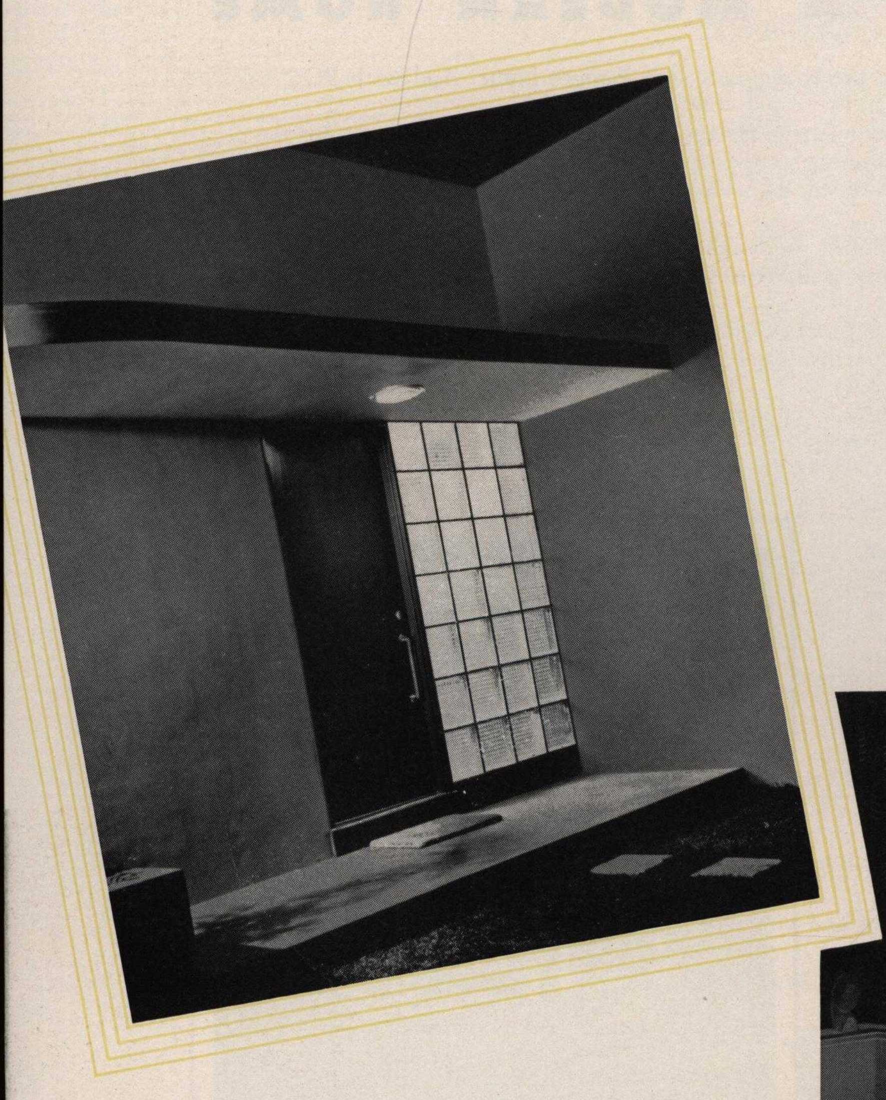


THE GRACEFUL BAY and matching panels of PC Glass Blocks are attractive features of this charming house. Inside the room, the fluting of the blocks diffuses the ample supply of light and also forms an interesting design. The insulating properties of PC Glass Blocks prevent excessive heat loss and chilling down draft. They are easily kept sparkling clean, need practically no repairs or replacements.



DRESS UP YOUR HOME WITH *Daylight*

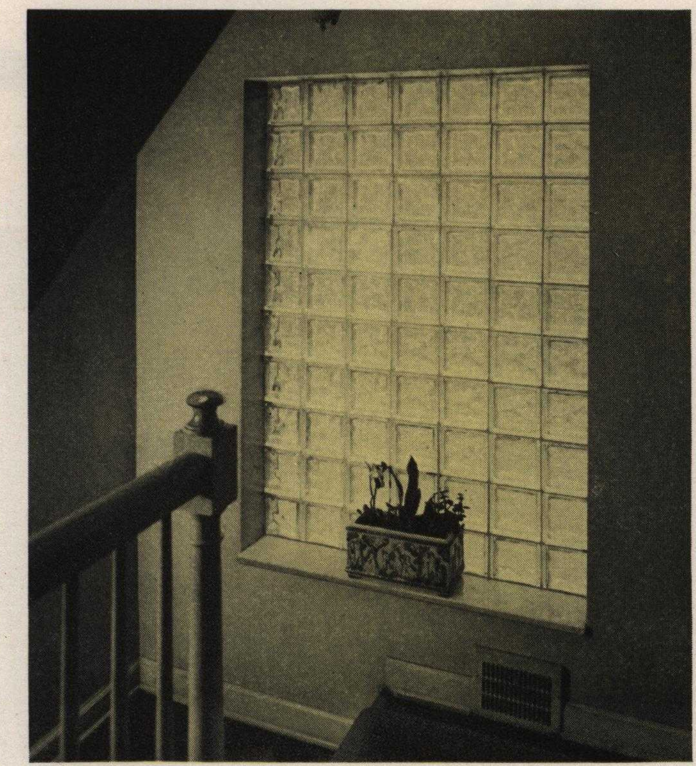
Nothing can bring out the full beauty of your home like plenty of diffused daylight. That is why so many people have found new beauty, new color in their furnishings and decorations when they installed PC Glass Blocks.



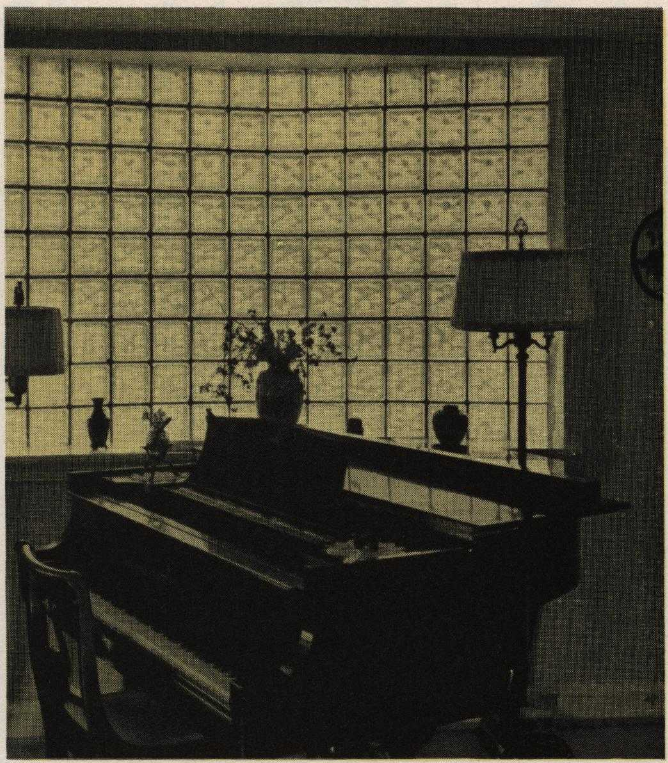
FRAME YOUR ENTRANCE DOOR in light, day and night. Flanked by PC Glass Blocks, floods of daylight brighten the entry. Light from indoors shines a cheery welcome to evening guests.

WHEREVER YOU WANT PRIVACY, panels of PC Glass Blocks will keep out prying eyes, but still admit plenty of light. They eliminate steamy windows in humid rooms, are easily kept sparkling clean.

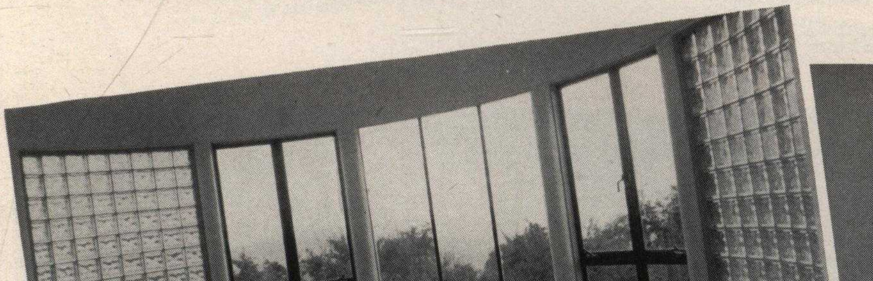
PC GLASS BLOCKS . . .



PLENTY OF LIGHT on stairs — for safety — can be had from a panel of PC Glass Blocks that improves the outward appearance of your home. Decorative inside too, PC Glass Blocks make your home quieter by deadening outside noises.



IN THIS ATTRACTIVE music room the panel of PC Glass Blocks is a lavish source of cheerful light by day and glows with friendly welcome when lights are lit. Even in such large panels, the insulating properties of PC Glass Blocks help maintain comfortable temperatures without excessive cost for heating or air conditioning.

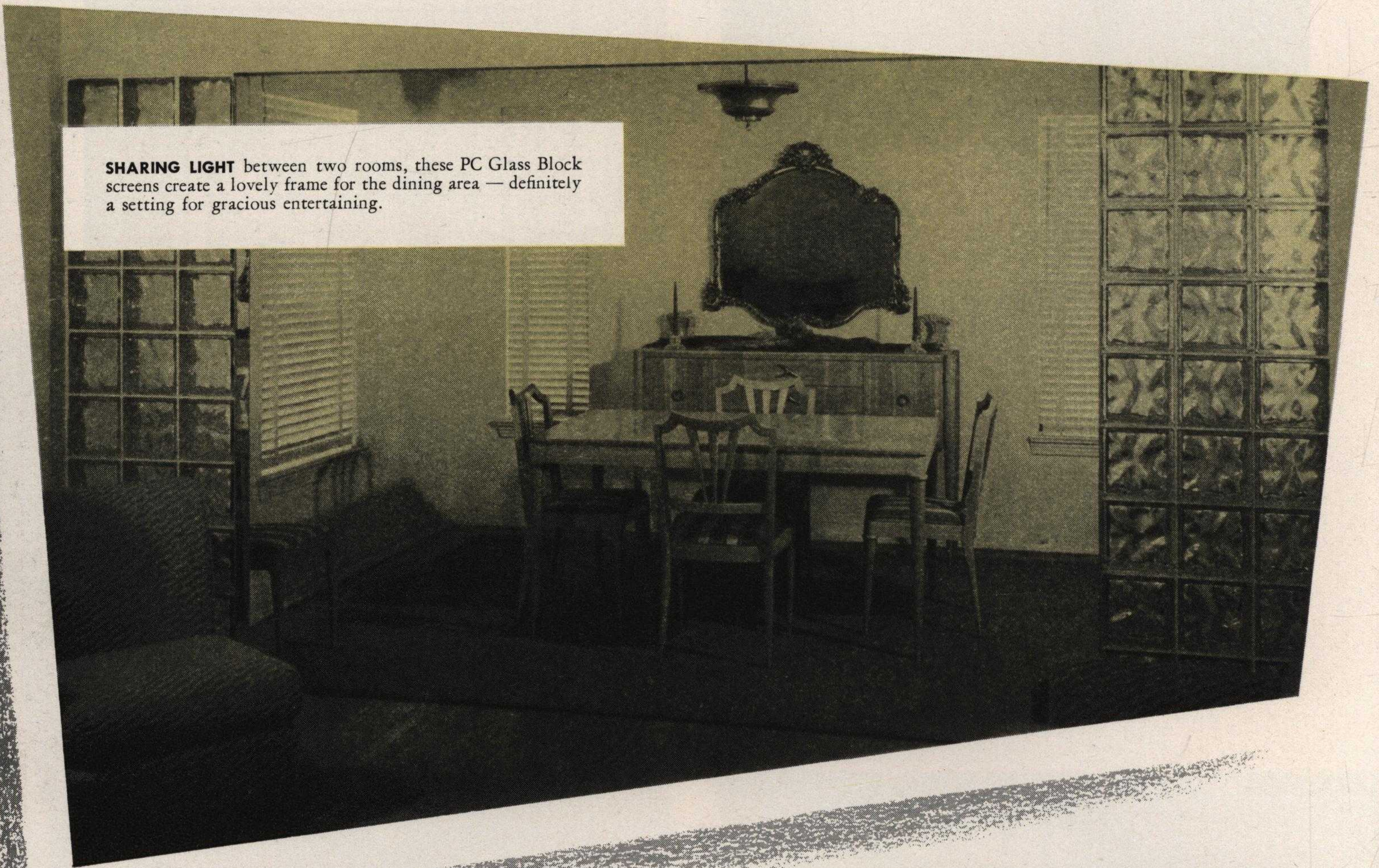


A LOVELY BAY like this shows how PC Glass Blocks can be used with clear Plate Glass to preserve privacy yet admit plenty of cheerful daylight. Easy to clean, PC Glass Blocks also save on heating costs.

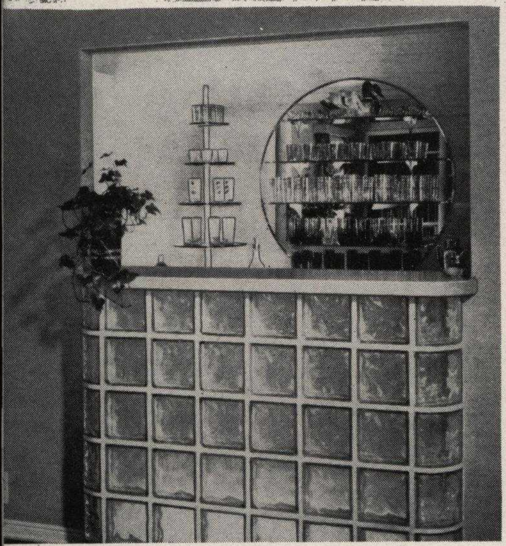
THIS PANEL SERVES a double purpose by providing plenty of light for an attractive room and also, because of its insulating value, by helping to maintain comfortable living temperature — as is evidenced by the "indoor garden."

the mark of a modern home!

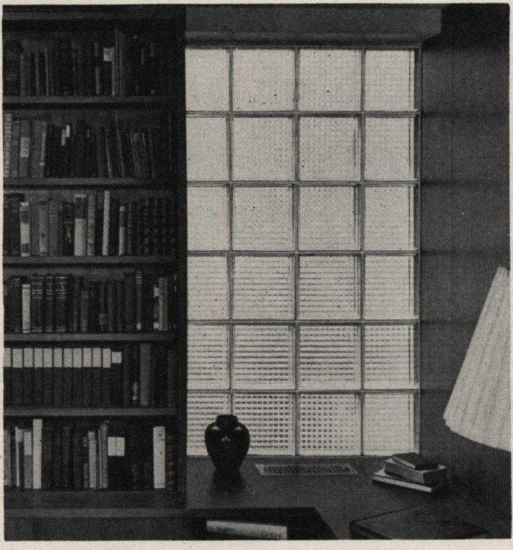
SMART WAYS TO WAKE UP YOUR



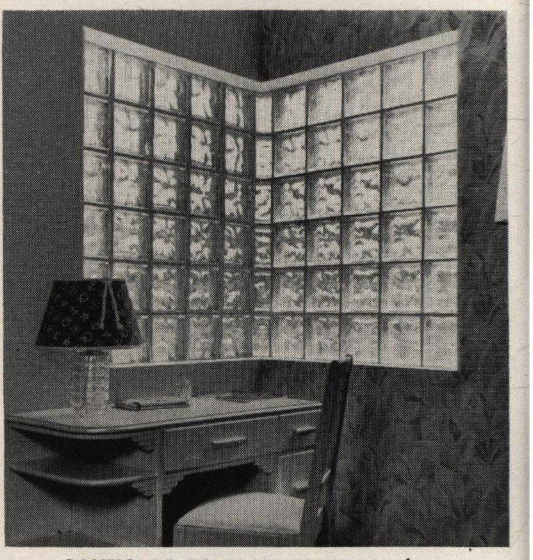
SHARING LIGHT between two rooms, these PC Glass Block screens create a lovely frame for the dining area — definitely a setting for gracious entertaining.



THIS TRULY MODERN meeting place, with colored lights shedding a convivial glow through PC Glass Blocks, is a center of attraction. The clean design and surface modeling of PC Glass Blocks, make them ideal for this decorative feature.



PLENTY OF LIGHT, quiet and privacy are assured in the library when you use PC Glass Blocks. Their smart good looks enhance the room's appearance, their insulating properties help maintain comfortable temperature.



PANELS OF PC GLASS BLOCKS make a bright, charming corner, preventing shadows and drafts. Desk space, sewing rooms, many "nooks" can be made cheerfully comfortable by the judicious use of incidental PC Glass Block panels.

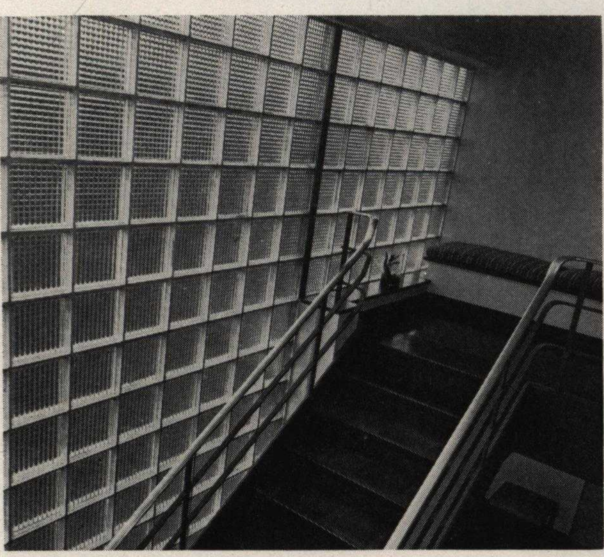
PC GLASS BLOCKS . . .

ROOMS WITH *PC Glass Blocks*

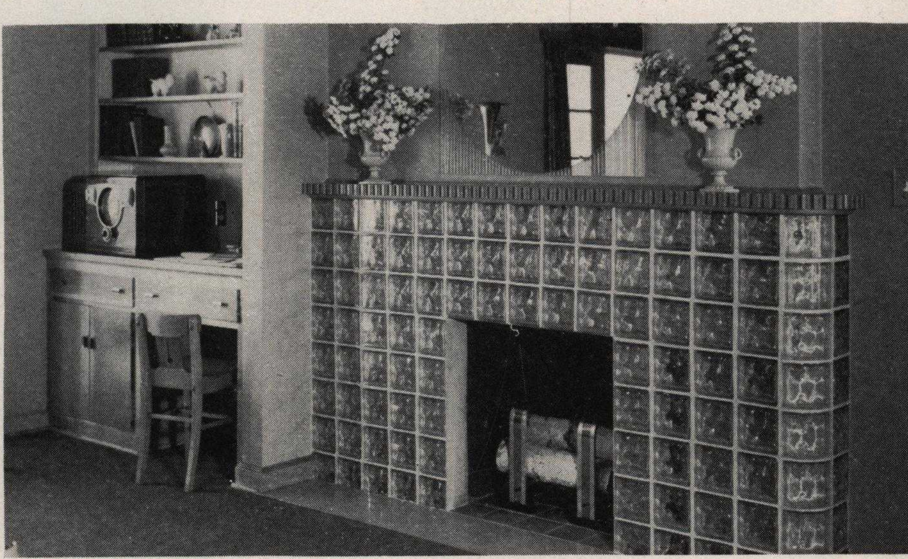
If you are building a new home, consider the many ways PC Glass Blocks can make your home brighter, more beautiful, more livable. If you are remodeling, PC Glass Blocks provide an ideal means of bringing your home up-to-date, making it attractively modern. Glass Blocks are easy to install, in walls and partitions.

MAKE AN INTERESTING FEATURE of built-in incidentals. Often a relatively few PC Glass Blocks will lend a new note of attractive modernity to an entire room.

THESE DECORATIVE PANELS of PC Glass Blocks harmonize with the suave, modern living room fittings and furnishings, bringing out their full color and beauty in diffused daylight. Their insulating properties prevent heat losses.



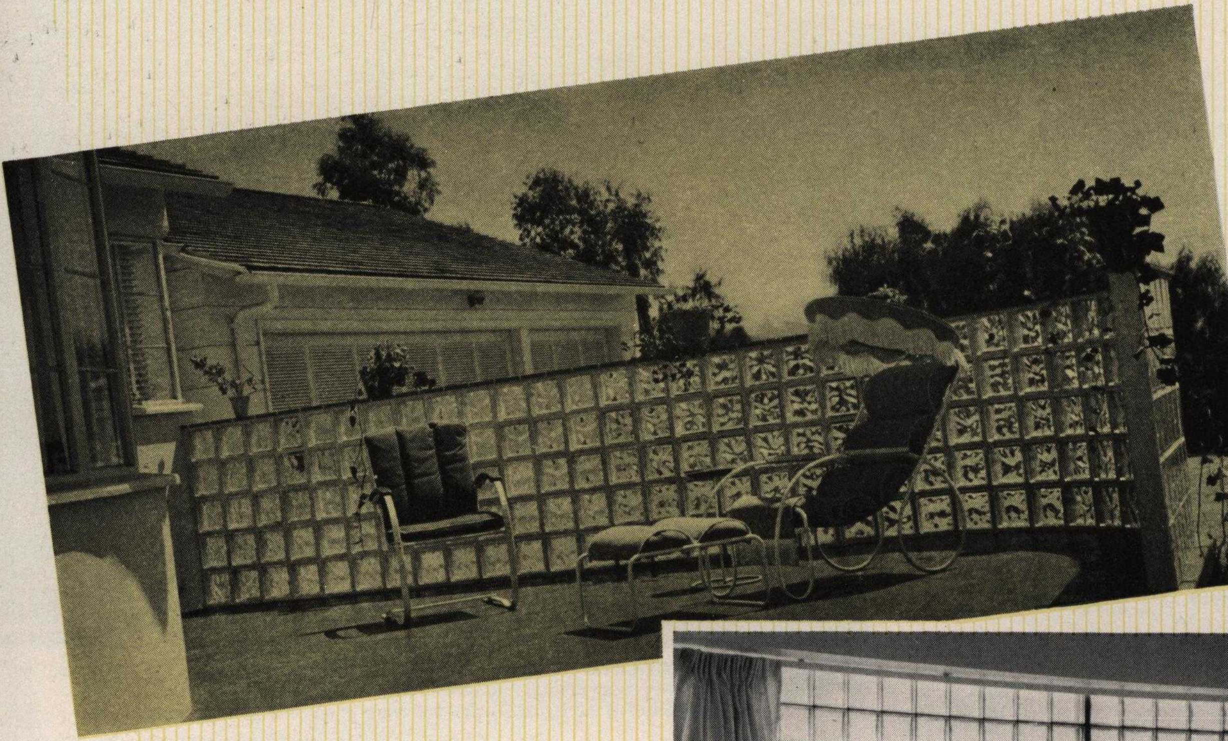
FLOODS OF CLEAR DAYLIGHT, through the large panel of PC Glass Blocks, add new attractiveness to this charming modern stairwell. Safety is assured, heat losses are prevented, undesirable views are shut off, privacy is maintained by this typical use.

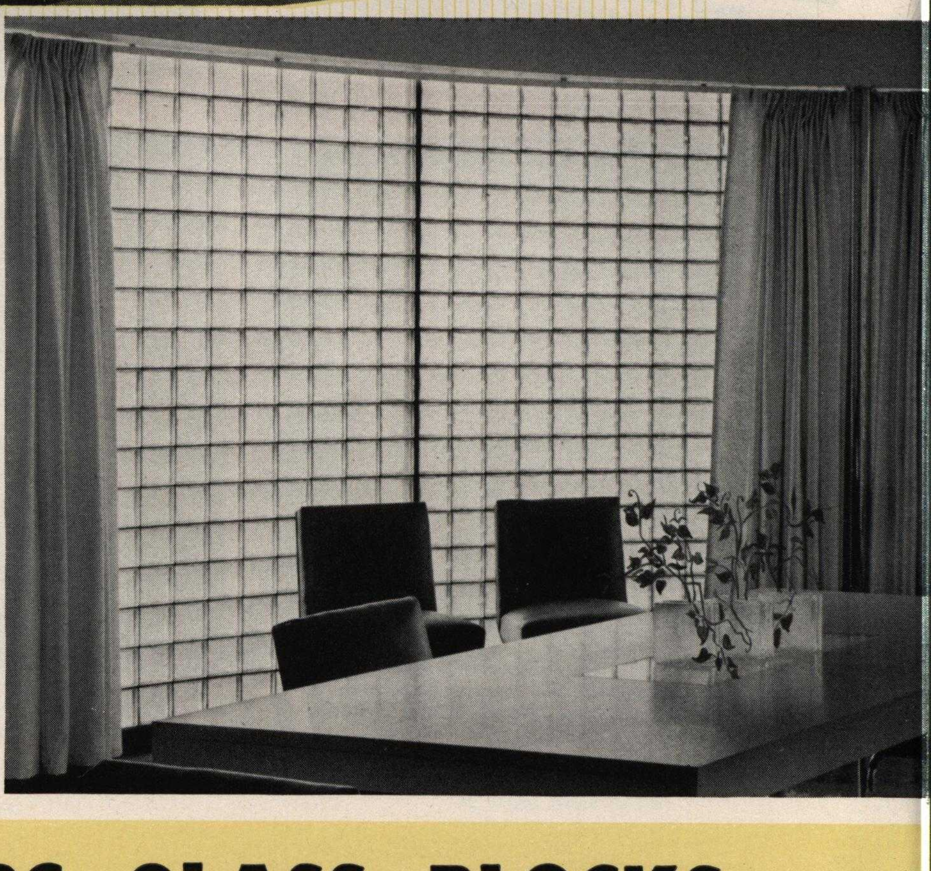


A TRULY DISTINCTIVE fireplace of PC Glass Blocks adds sparkle and zest to the entire room. There are many places in the modern home where just a few glass blocks, used interestingly, can add a great deal of cheery brightness.

the mark of a modern home!

LOOK WHAT *PC Glass Blocks* CAN DO TO GIVE YOU A LOVELY HOME

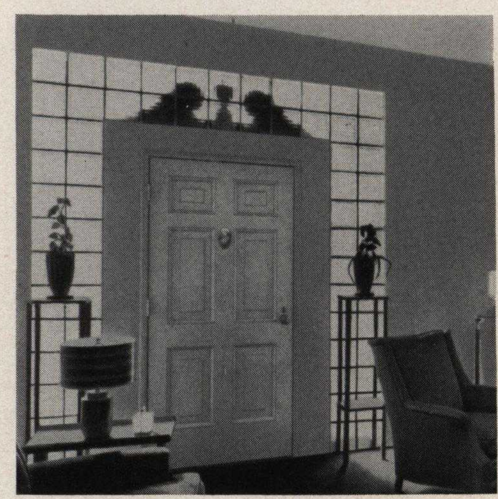




FOR YOUR OUTDOOR living room, here's a decorative wall of PC Glass Blocks that is new and unusual. Bright and gay, it gives you a feeling of privacy and is a practical windbreak.

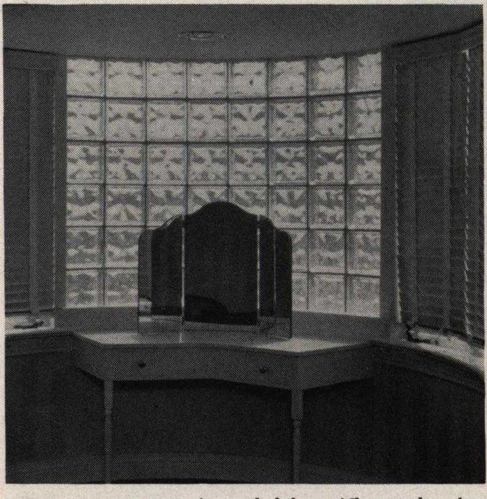
CUTTING OFF AN UNATTRACTIVE VIEW in this modern dining room, the panel of PC Glass Blocks also preserves the privacy of the occupants. The big panel admits plenty of light for the spacious room, is easily cleaned and seldom if ever needs repairs or replacements.

PC GLASS BLOCKS . . .

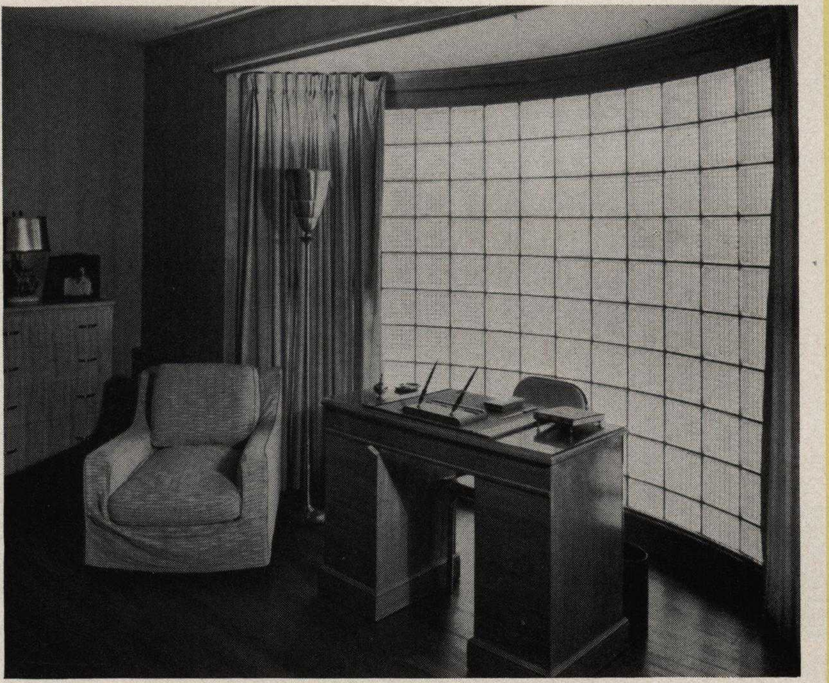


BRINGING DAYLIGHT INDOORS, this decorative frame of PC Glass Blocks around the door enhances the charm of the entire room. The insulating properties of PC Glass Blocks are especially appreciated around doorways, since they reduce heat losses, cut down chilling drafts.

FOR BEAUTY AND SAFETY at stairheads, a decorative panel of PC Glass Blocks admits plenty of clear daylight.



LIGHT, OF COURSE, is needed for coiffure and make-up. It comes plentifully from this panel of PC Glass Blocks.

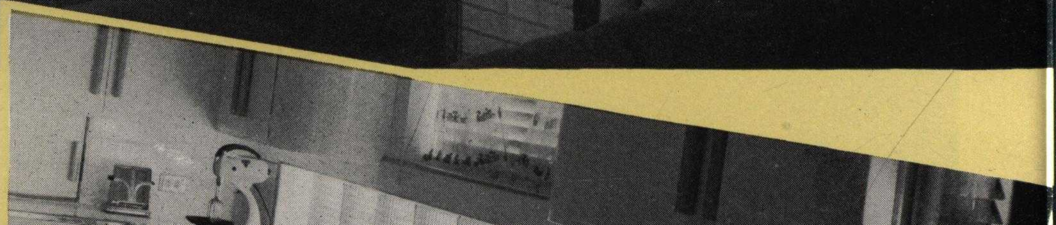


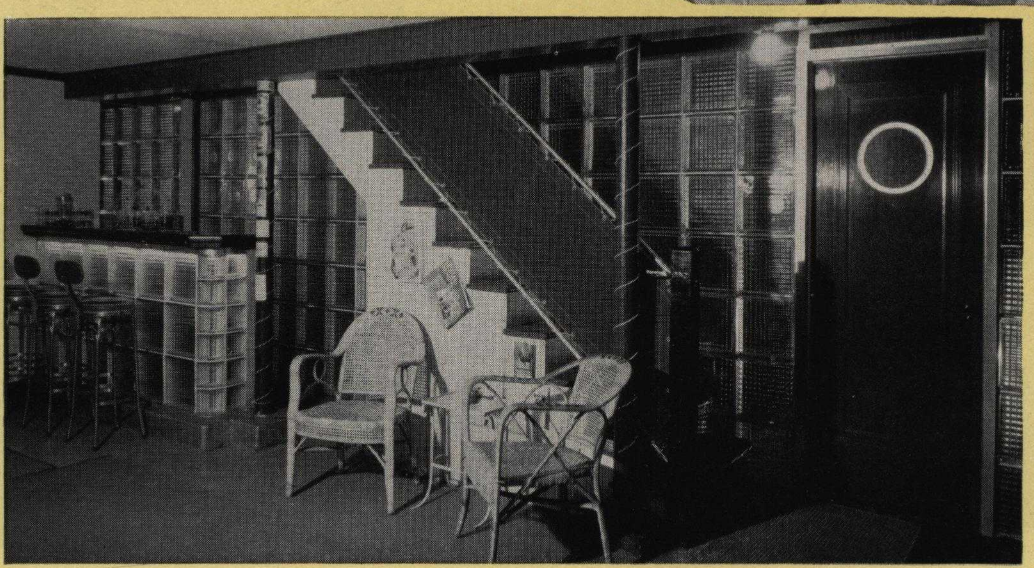
PLENTY OF LIGHT for recreational or studious pursuits is provided by the large bay of PC Glass Blocks. Being translucent but not transparent, PC Glass Blocks insure privacy, can be used to shut off an unattractive view.

HARMONIZING with the design of this modern dining room, the panels of PC Glass Blocks provide ample lighting to accent the decorative elements. Privacy is also assured, with easy cleaning and a minimum of maintenance.

the mark of a modern home!

TWIN PANELS OF PC GLASS BLOCKS, flanking the fireplace, admit plenty of daylight into this homelike living room. PC Glass Blocks can also dampen outside noises, cut off unattractive views.

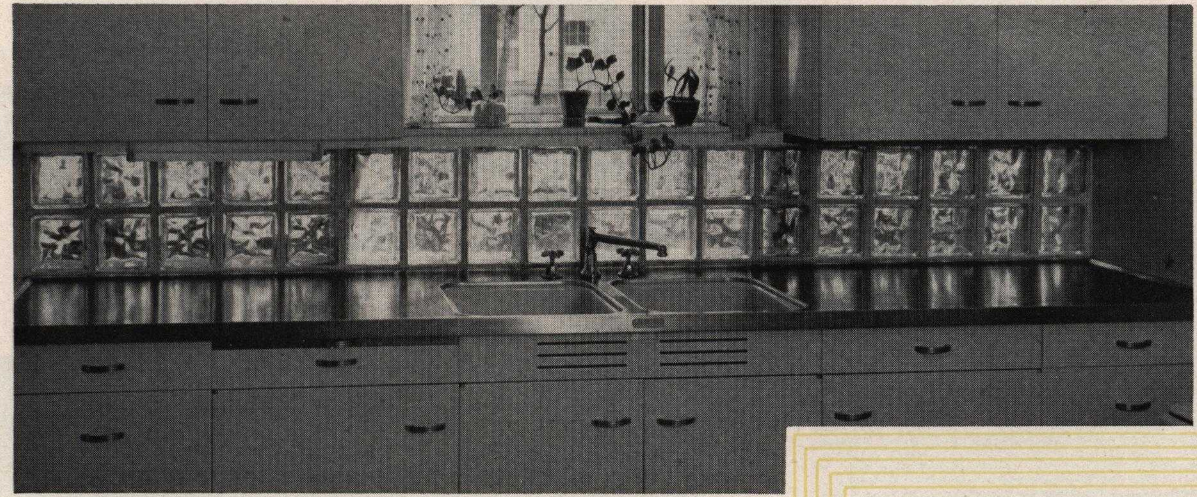




THIS DISTINCTIVE GAME ROOM has been created with PC Glass Blocks. Concealed colored lights shed a festive glow. Partition walls of PC Glass Blocks can change wasted basement areas into attractive recreational rooms

CHEERFUL, DIFFUSED DAYLIGHT, supplied by PC Glass Blocks, makes this modern kitchen a cheerful place to work. The light can be concentrated on working surfaces and also distributed throughout the entire room.

PC GLASS BLOCKS . . .

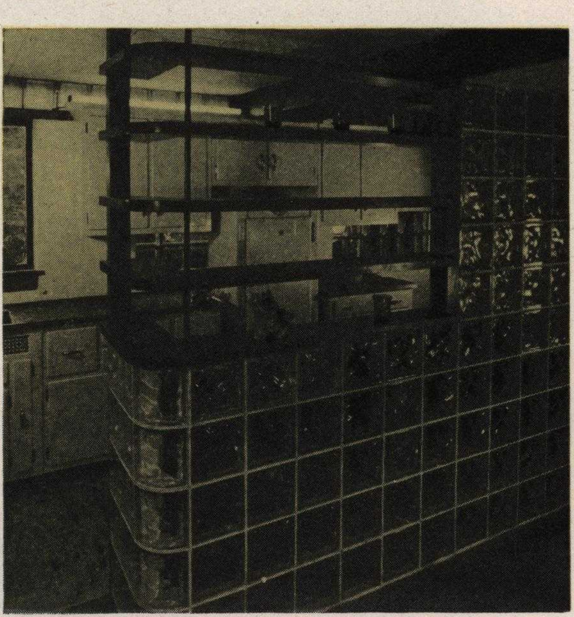


PLENTY OF CLEAR DAYLIGHT, on work surfaces right where it is needed, is supplied by this long panel of PC Glass Blocks. Insulating too, they do not steam-up, are easily kept spotlessly clean.

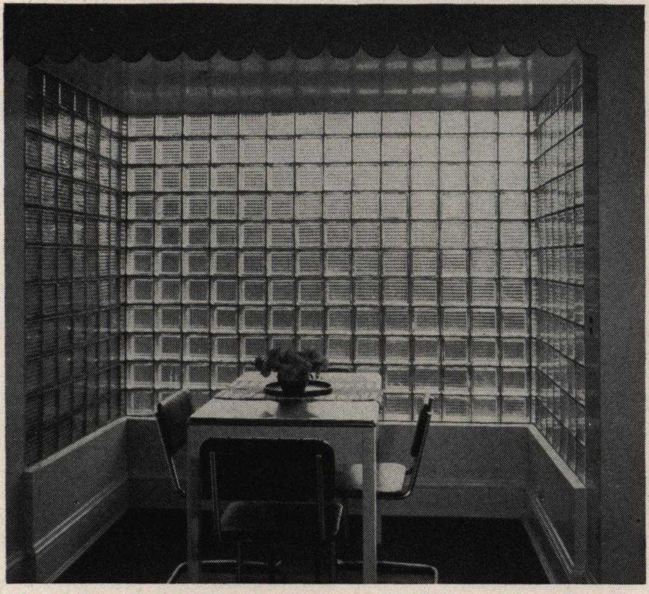
MAKING PLEASANT PLACES IN YOUR HOME WITH

PC Glass Blocks

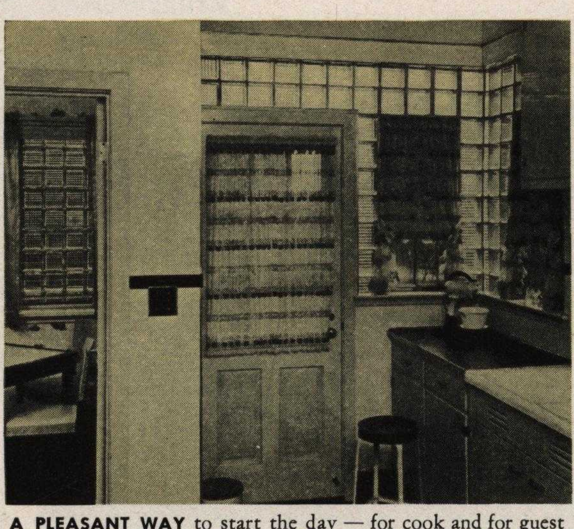
In the workaday places in the home, the modern housewife demands plenty of clear diffused daylight. That is why you find panels of PC Glass Blocks in so many modern kitchens and pantries. Aside from brightening the appearance of the entire room, PC Glass Blocks are easy to clean, keep out heat and cold. Beautiful, they also are useful.



SCREENS OR PARTITIONS of PC Glass Blocks establish a definite separation between rooms, yet "share the light" so there are no dark corners. Use panels like this for dinettes, pantries, bathrooms and countless other places in your home.

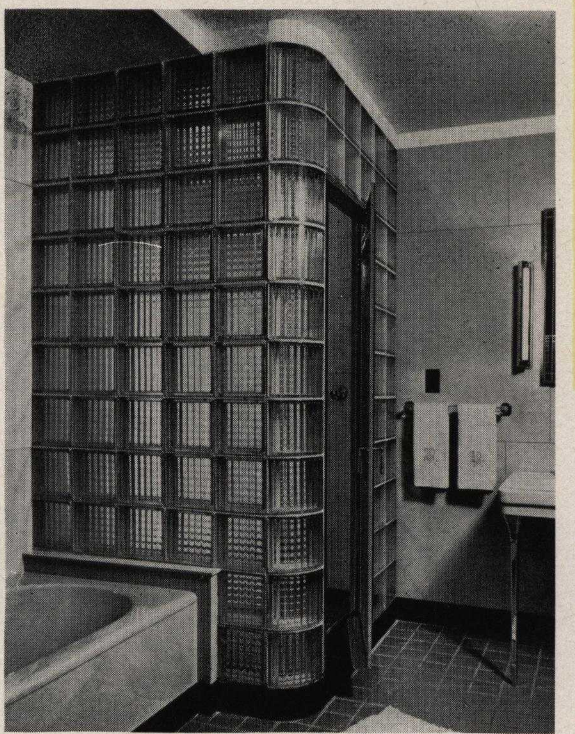


IN THE TRULY MODERN MANNER, this breakfast nook of PC Glass Blocks packs a maximum of convenience and brightness into a minimum of space. The PC Glass Block panels assure privacy, exclude dust and grit, are so easy to keep clean.



A PLEASANT WAY to start the day — for cook and for guest — is to cook and eat breakfast in this bright, airy kitchen and dinette. The panels of PC Glass Blocks admit plenty of light, are easily cleaned, reduce heat losses and preserve privacy.

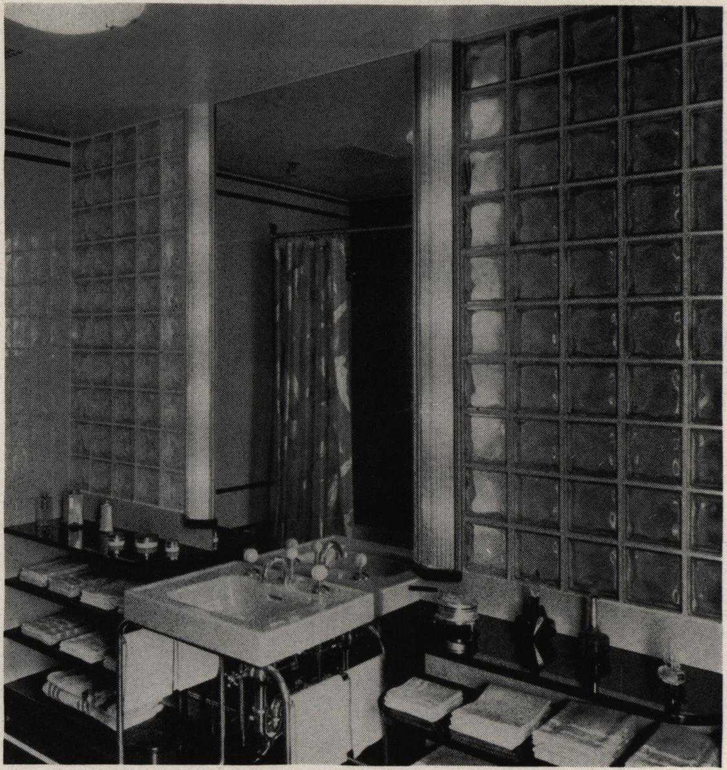
the mark of a modern home!



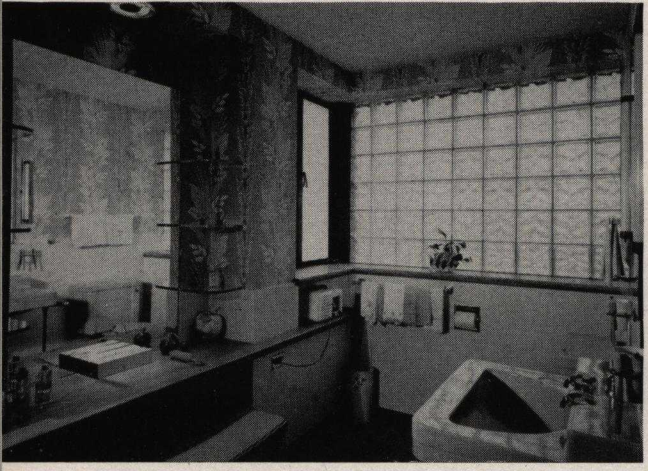
SMART AND CONVENIENT is the shower stall of PC Glass Blocks. Plenty of light gets in, no water can spatter out. Cleaning is quick and easy with PC Glass Blocks.

PLENTY OF LIGHT WITH BEAUTY AND PRIVACY

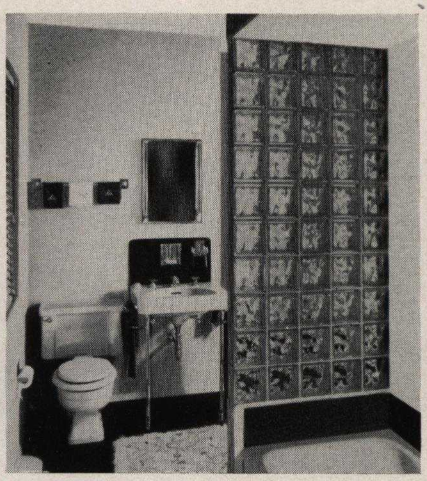
The versatility of PC Glass Blocks is of distinct value in the modern bathroom. Water, steam, humidity cannot harm them. Insulating qualities help maintain comfortable temperatures. Especially designed patterns are available to obscure vision and assure complete privacy. Think of your bath in terms of glass and note some of the many ways you can use PC Glass Blocks.



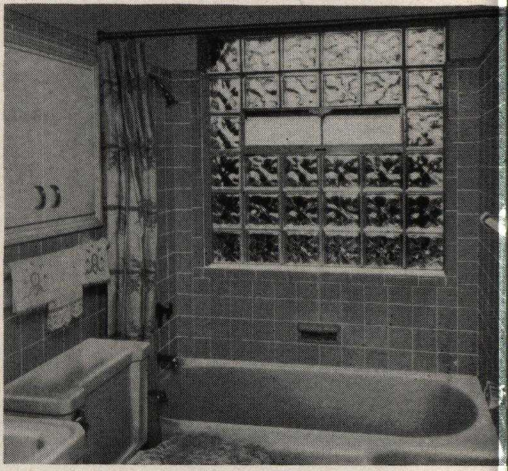
BEAUTY AND UTILITY are personified in this colorful modern bathroom. Ample daylight floods the room, yet the panels of PC Glass Blocks preserve absolute privacy. There are no chilling drafts, no long laborious cleaning jobs where you use PC Glass Blocks.



MODERNLY BRIGHT and light, this bathroom also benefits by the other qualities of PC Glass Blocks. Absolute privacy, minimum heat losses, freedom from drafts — without laborious cleaning jobs — are yours when you use PC Glass Blocks.



THIS SCREEN lends light to the bather from the rest of the room. Just another way in which the modern home is made more efficient, more comfortable, by making all possible use of PC Glass Blocks.



VENTILATION, light and privacy — all made possible by one panel of PC Glass Blocks. This is typical of the use of other materials in the modern home in combination with PC Glass Blocks.

PC GLASS BLOCKS . . .

FACTS YOU WILL WANT TO KNOW ABOUT PC Glass Blocks

1. PC Glass Blocks are made of clear, colorless glass of proven durability. The light which streams through them is of full daylight tone, requiring no special consideration in the matching of colors for decoration.

2. PC Glass Blocks are hollow "all glass" units with fused seals made at high temperatures, relatively free of entrapped water vapor. This feature was developed by our engineers so that PC Glass Blocks will remain tightly sealed. The joint is as strong as any other part of the block. This tight seal insures a dry, dead-air space within the block which is so important to efficient heat insulation.

3. PC Glass Blocks have a special grit-bearing, moisture- and alkaline-resisting, plastic coating on all mortar edges. This insures a complete and permanent bond between the glass and the cement mortar and provides a panel construction having a high degree of wind resistance and water-tightness.

4. PC Glass Block edge construction forms a "keylock" mortar joint, providing for a full bed of mortar, yet permitting a visible joint of only about ¼ inch, resulting in a trim panel that is pleasing to the eye.

5. PC Glass Blocks' high insulating value prevents the forming of condensation on the room side of glass block panels until the outside air has reached a temperature much lower than that necessary to produce condensation on single-glazed windows. The problem of wet and dripping window sills rarely occurs where PC Glass Blocks are used.

6. PC Glass Block panels have sound reduction factors of 37.6 to 42.0 decibels, a value closely approximating that for a 4-inch hollow clay tile wall plastered both sides. They minimize outside distracting noises and protect privacy within the home.

7. PC Glass Block panels have a minimum compressive strength of 400 to 600 pounds per square inch. This crushing strength is well above that of many accepted masonry constructions. However, glass block construction should never be used for loadbearing walls or panels. Adequate provision for expansion must be made at head and jambs of all exterior panels and at head only of interior panels.

THERMAL INSULATION

Tests run during the past several years by a number of nationally recognized laboratories have established values for the over-all coefficient of heat transfer "U" as 0.40 to 0.43 for panels of 8-inch block constructed in the recommended manner. In computing heat losses through panels for design purposes, it is recommended that a "U" value of 0.49 be used for all block sizes and face patterns.

SOLAR HEAT GAIN

The use of glass blocks for light-transmitting areas results in a marked reduction in the total solar heat gain as compared with ordinary windows. This factor is of considerable advantage in buildings that are properly air-conditioned, but does not eliminate the need for adequate ventilation or shading in non-air-conditioned rooms.

Based upon extensive tests, suggested figures for design computations are a maximum hourly rate of 41 B.T.U. and maximum daily rate of 250 B.T.U. total heat gain per square foot of glass block panel on South exposure, 40 degrees North Latitude for August 1.

More complete data on solar radiation appear in the current Guide of the American Society of Heating and Ventilating Engineers.

LIGHT TRANSMISSION

Light transmission through the faces of individual glass blocks has been measured by two somewhat different methods in the absence of any generally accepted standard. Average transmission values for each PC pattern are:

> Vue, 85% — Argus, Argus Parallel Flutes, Decora, Reeded-Decora, Druid and Saxon, 80% — Bristol, 70% — Prism Light-Directing 65% — Essex, 50%.

ESTIMATING DATA

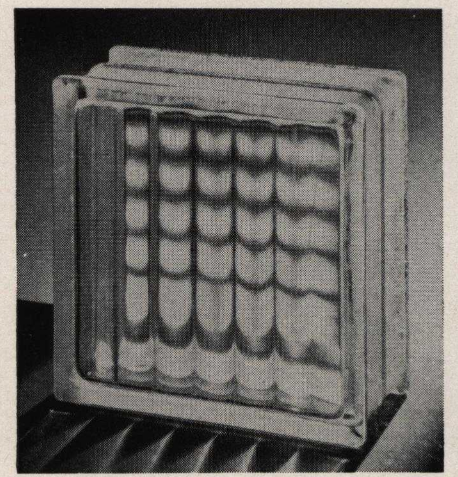
(For 100 sq. ft. of panel laid with ¼-in. visible mortar joints)

Size of Block....	6″	8″	12″
Number of Blocks	400	225	100
Weight of Panel	2000 lbs.	1800 lbs.	1900 lbs.
Volume of Mortar	4.3 cu. ft.	3.2 cu. ft.	2.2 cu. ft.

(For 1 cu. ft. of Mortar, based on 1-1-4 Mix by Volume)

Cement	¼ bag
Lime	¼ bag
Sand	1 cu. ft.
Waterproofing Compound, Pittsburgh NV-3389	½ pint

CHOOSE FROM THESE ATTRACTIVE PATTERNS



ARGUS

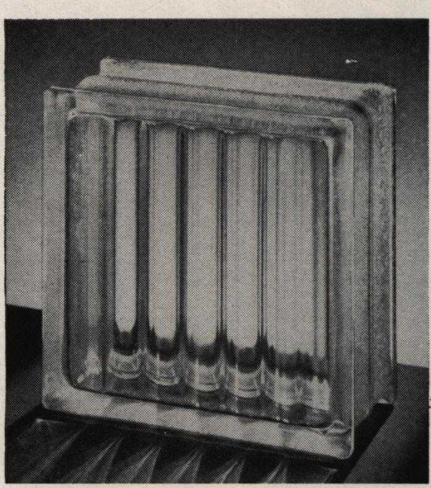
1. A conventional pattern designed for general use, both decorative and utilitarian.

2. High light transmission, good light diffusion.

3. Can be laid with flutes vertical or horizontal on room side with equally pleasing and efficient results. Caution: When used in combination with corner or radial blocks, if pattern match is desired, the standard blocks must be laid with flutes horizontal on room side.

4. Smooth outside faces permit maximum cleanability.

5. Pattern description: Smooth outside faces, interior flutes identical, assembled at right angles.



ARGUS PARALLEL FLUTES

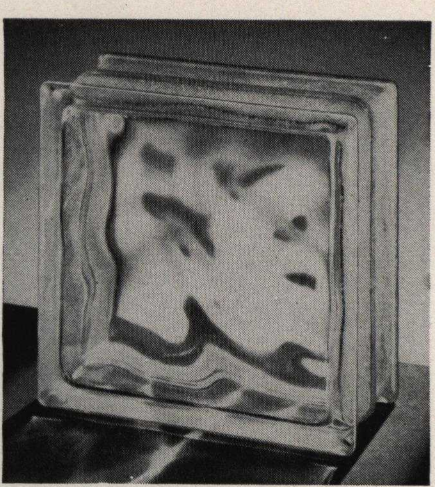
1. A conventional pattern designed for general use, both decorative and utilitarian.

2. High light transmission, good light diffusion.

3. Can be laid with flutes vertical or horizontal with equally pleasing and efficient results. Caution: When used in combination with corner or radial blocks, pattern match can be obtained on only one side of panel.

4. Smooth outside faces permit maximum cleanability.

5. Pattern description: Smooth outside faces, interior flutes identical and parallel.



DECORA

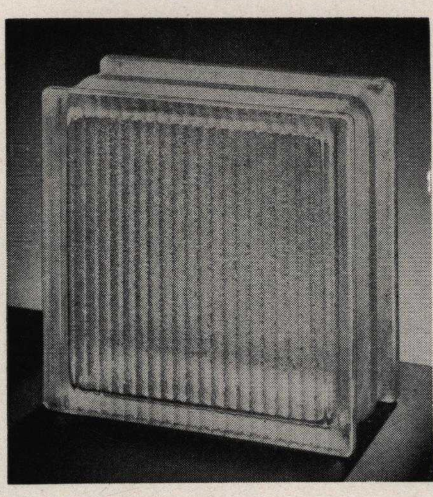
1. A decorative pattern ideally suited to harmonize with both modern and conventional design.

2. High light transmission with irregular diffusion and high translucency.

3. Asymmetric design permits laying without regard to pattern.

4. Smooth outside faces insure maximum cleanability.

5. Pattern description: Smooth outside faces, asymmetric design on both interior faces.



BRISTOL

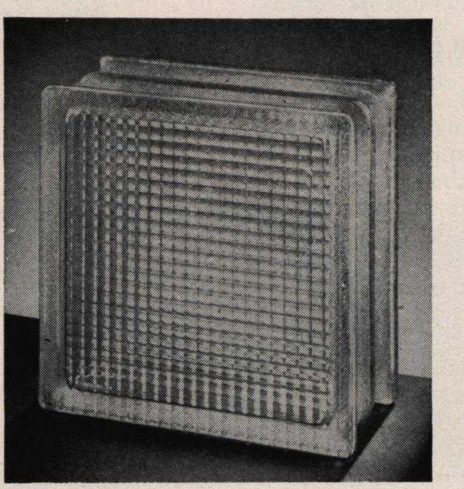
1. Designed to provide softer, more diffused light.

2. Should be laid with exterior flutes vertical.

3. Cleanability maintained by the smooth exterior flutes and lightly etched border.

4. Pattern description: Narrow vertical flutes and lightly etched border on both outside faces, and flat etched inside faces.

NOTE: *This block is supplied in the 7¾" sizes only.*



DRUID

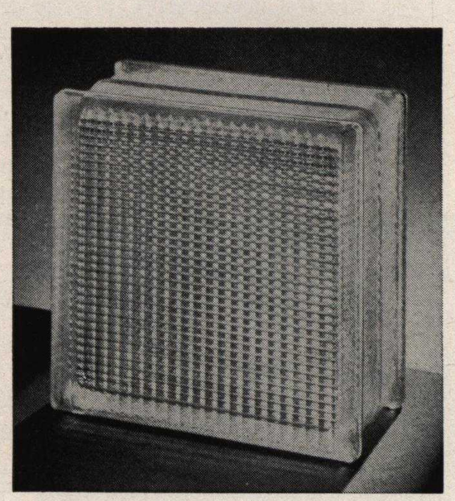
1. Designed to provide high light transmission and closely match the Prism Light-Directing unit. For use on elevations without sun exposure when Prism Light-Directing units are used on adjacent sun exposure elevations.

2. Must be laid with exterior flutes vertical.

3. Cleanability is maintained by the smooth exterior flutes and lightly etched border.

4. Pattern description: Narrow vertical flutes and lightly etched border on both outside faces, horizontal flutes on both inside faces. Closely matches appearance of Prism Light-Directing unit.

NOTE: *This block is supplied in the 7¾" sizes only.*



ESSEX

1. Specially designed for low light transmission. For use below eye-level in panels containing Prism Light-Directing Blocks and on elevations subjected to severe exposure to direct sunlight where Prism Light-Directing Blocks are not adaptable.

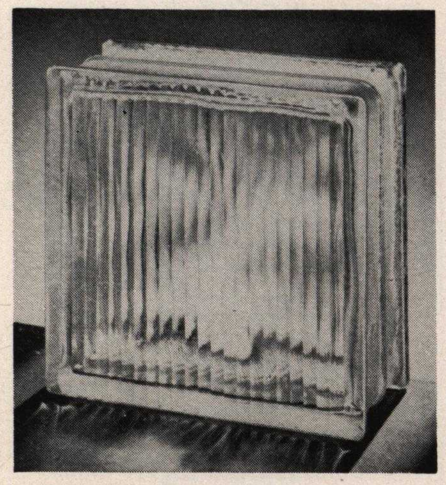
2. Must be laid with exterior flutes horizontal.

3. Pattern description: Horizontal spreading flutes and lightly etched borders on both exterior faces, vertical Prisms on both interior faces.

NOTE: *This block is supplied in the 7¾" sizes only.*

PC GLASS BLOCKS . . .

OF PC Glass Blocks



REEDED-DECORA

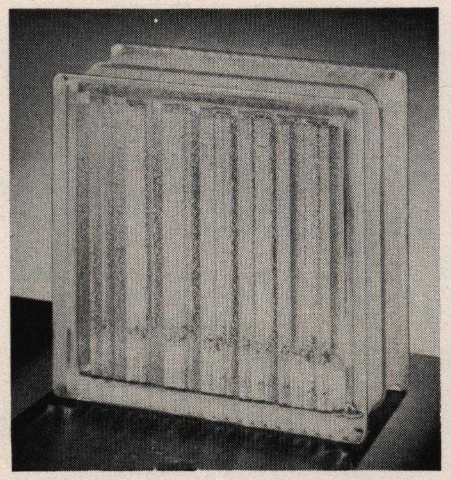
1. A modified Decora design to increase irregular pattern effects.

2. High light transmission with good diffusion and superior obscurity.

3. Should be laid with exterior reeds vertical.

4. Cleanability is maintained by the smoothly rounded exterior reeds.

5. Pattern description: Narrow parallel reeds on both exterior faces, asymmetric design on both interior faces.



SAXON

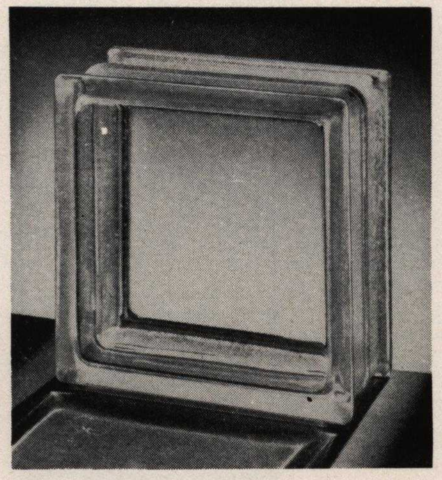
1. A pleasing uniform pattern designed for even light diffusion and brightness reduction, but with good light transmission.

2. Interior etched surfaces with exterior reeds produce maximum obscurity.

3. Should be laid with exterior reeds vertical.

4. Cleanability is maintained by the smoothly rounded exterior reeds.

5. Pattern description: Narrow parallel reeds on both exterior faces, parallel to wide flutes on both interior faces. Both interior faces are etched.



VUE

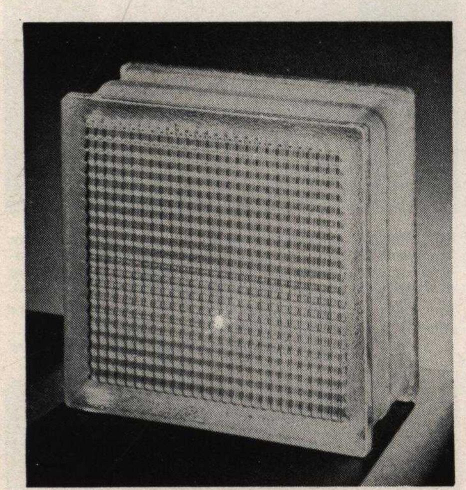
1. A pattern employing clear glass surfaces to permit sufficient general vision of large objects or movements beyond the panel to prevent the "shut-in" feeling. However, visibility of sharp details is not possible under most conditions.

2. High light transmission.

3. Cleanability is assured by smooth exterior surfaces.

4. Pattern description: Clear, smooth interior and exterior surfaces.

NOTE: *This block is supplied in the 7¾″ sizes only.*



PRISM LIGHT-DIRECTING

1. Specially designed to control the direction of sunlight transmitted by the block, and under proper conditions, to provide improved natural illumination.

2. By means of unlike prisms on the two inside faces, the greater part of the transmitted light is directed upward — away from the direct vision or glare zone — to the ceiling where it may be reflected downward to provide indirect "daylighting."

3. Can be set in one position only — block is marked to indicate correct setting. Must not be used below eye level. For lower portions of panels below eye level use Essex Blocks.

4. Smooth vertical exterior flutes and lightly etched border insure easy cleaning.

5. Pattern description: Narrow vertical flutes and etched border on both outside faces, horizontal prisms on both inside faces.

NOTE: *This block is supplied in 7¾″ size only.*

(Subject to change without notice)

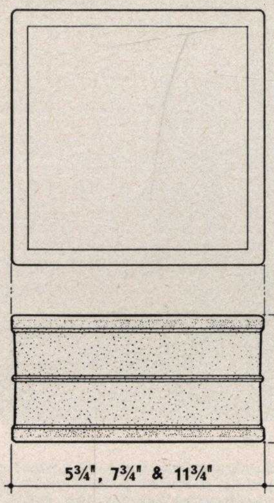
PATTERNS	SIZES AND SHAPES AVAILABLE					
	5¾″ Square	7¾″ Square	11¾″ Square	5¾″ Corner	7¾″ Corner	7¾″ Radial
Argus	●	●	●	●	●	●
Argus Parallel Flutes	●	●	●			
Bristol		●			●	●
Decora	●	●	●	●	●	●
Druid		●			●	●
Essex		●			●	●
Prism Light-Directing		●				
Reeded-Decora	●	●	●	●	●	●
Saxon	●	●	●	●	●	●
Vue		●			●	

the mark of a modern home!

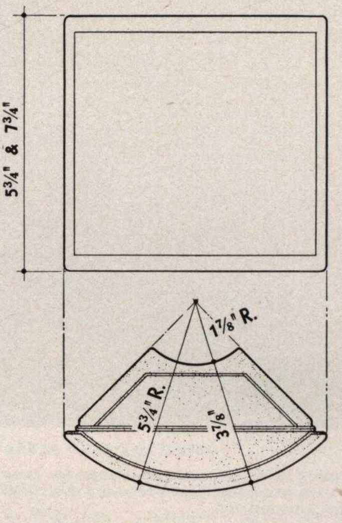
PC Glass Blocks —A MODULAR PRODUCT*

SIZES AND SHAPES AVAILABLE

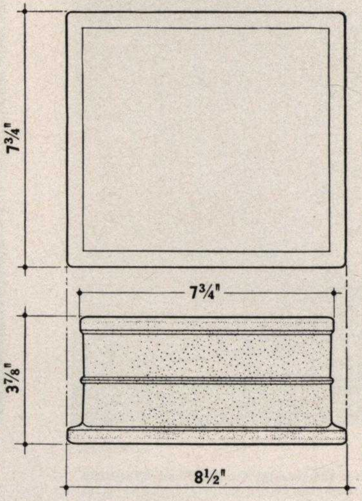
SQUARE BLOCKS



CORNER BLOCKS



RADIAL BLOCKS



*PC Glass Blocks have Standard Coordinated Dimensions, and meet the requirements of American Standards Association Project A62, and conform to the American Standard Basis for Coordination A62.1-1945.

PITTSBURGH NV-3389 WATERPROOFING COMPOUND—To be added to the mortar to conform with PC specifications. Use one (1) quart per bag of cement.

Available in one-quart, one-gallon, and five-gallon containers.

®
PITTSBURGH
PC
CORNING

ACCESSORIES

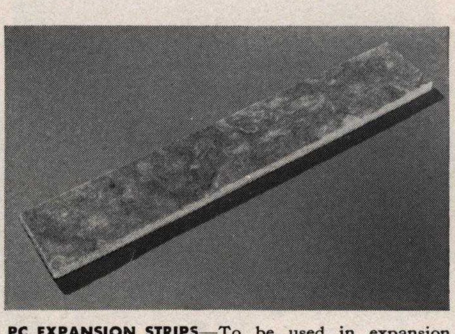
These PC accessory materials can be obtained from all suppliers of PC Glass Blocks

PITTSBURGH PC CORNING
ASPHALT EMULSION
CAUTION: STORE IN WARM ROOM TO PREVENT FREEZING
PITTSBURGH CORNING CORPORATION

PC ASPHALT EMULSION — To be used on all sills to form a waterproof joint. Also used to adhere expansion strips to side and head jambs before installing glass blocks. See specifications for proper application.

For sills and heading of expansion strips, estimate one (1) gallon for approximately 150 lin. ft.

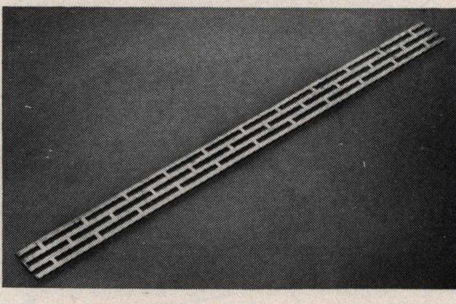
Available in one-quart, one-gallon, and five-gallon containers.



PC EXPANSION STRIPS—To be used in expansion spaces at side and head jambs installed in accordance with PC specifications.

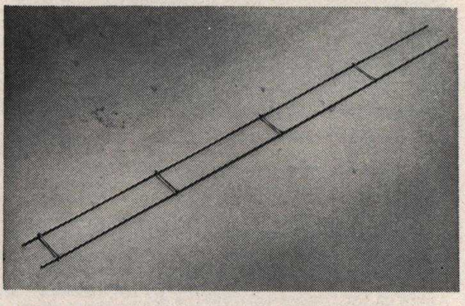
Available in the following sizes:
9/16" x 4 1/8" x 25" } (For use in chase construction)
3/8" x 4 1/8" x 25" }

For wall anchor construction, standard 4 1/8" wide strips can easily be cut to 3" width required.



PC WALL ANCHORS — To be used for supporting panels up to 100 sq. ft. in area where permitted by building code requirements. Spaced and installed in accordance with PC specifications. Wall Anchors are No. 20 gauge perforated steel galvanized after fabrication.

Available in 2'-0" lengths, 1¾" wide.

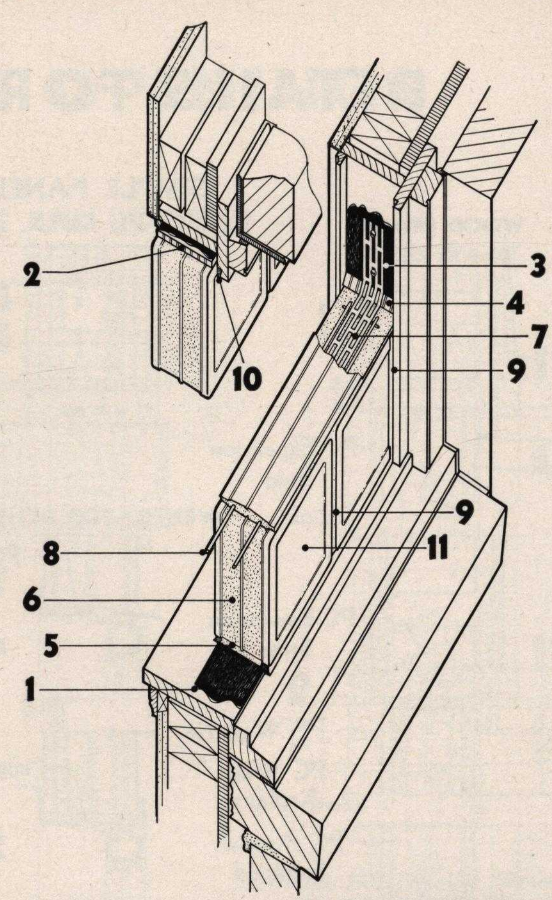


PC WALL TIES — To be used in horizontal joints of glass block panels, spaced and installed in accordance with PC specifications. Wall ties are formed of two No. 9 galvanized wires spaced 2" apart with No. 14 galvanized cross wires welded every 8".

Available in 8' lengths.

HOW TO INSTALL PC GLASS BLOCKS

1. Apply heavy coat of PC Asphalt Emulsion to sill. Must be dry before blocks are set.
2. Adhere PC Expansion Strips to head with PC Asphalt Emulsion.
3. Fasten PC Wall Anchors loosely to side jambs and crimp as shown so that horizontal parts of anchors will be approximately 24″ apart. Locate screws at approximately center of slots.
4. Adhere PC Expansion Strips to side jambs with PC Asphalt Emulsion. Place strips progressively as panel is erected so that strips can be cut and fitted around wall anchors.
5. Place full mortar bed at sill. Do not furrow.
6. Start lower course of blocks. All mortar joints must be full and not furrowed. Do not use steel tools to tap blocks into place. Continue setting additional courses of blocks up to first joint in which wall anchor will be bedded.
7. Place lower half of mortar bed for this joint. Do not furrow. Bed horizontal part of anchor in mortar. Then tighten anchor fastenings securely at side jambs. Cover wall anchors with mortar and proceed with installation of blocks.
8. Install PC Wall Ties in horizontal joints spaced according to PC Specifications. Wall ties shall generally occur in same joint as wall anchors. Wall ties must run from end to end of panel and where used continuously must lap 6″. Wall ties must not bridge expansion joints. For installation of wall ties in horizontal mortar joints follow instructions under Item #7.
9. Strike joints smoothly as shown while mortar is still plastic and before final set. At this time rake out all joints requiring calking to a depth equal to the thickness of joint. Remove surplus mortar from faces of glass blocks and wipe dry.
10. Calk interior and exterior perimeter of panel as shown with calking compound as specified.
11. Final cleaning of glass block faces shall not be done until after final mortar set.



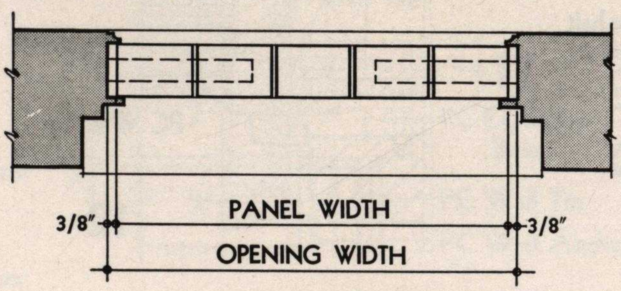
LAYOUT TABLES FOR PC GLASS BLOCK RESIDENTIAL PANELS

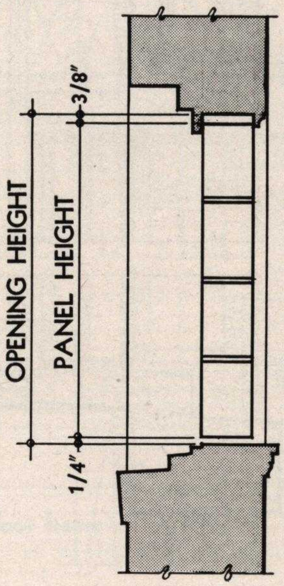
Tables based on 1/4″ mortar joints

5¾" SQUARE BLOCKS				7¾" SQUARE BLOCKS				11¾" SQUARE BLOCKS			
NO. OF UNITS	PANEL WIDTH OR HEIGHT	OPEN-ING WIDTH	OPEN-ING HEIGHT	NO. OF UNITS	PANEL WIDTH OR HEIGHT	OPEN-ING WIDTH	OPEN-ING HEIGHT	NO. OF UNITS	PANEL WIDTH OR HEIGHT	OPEN-ING WIDTH	OPEN-ING HEIGHT
1	5¾″	6½″	6⅜″	1	7¾″	8½″	8⅜″	1	11¾″	1′-0½″	1′-0⅜″
2	11¾″	1′-0½″	1′-0⅜″	2	1′-3¾″	1′-4½″	1′-4⅜″	2	1′-11¾″	2′-0½″	2′-0⅜″
3	1′-5¾″	1′-6½″	1′-6⅜″	3	1′-11¾″	2′-0½″	2′-0⅜″	3	2′-11¾″	3′-0½″	3′-0⅜″
4	1′-11¾″	2′-0½″	2′-0⅜″	4	2′-7¾″	2′-8½″	2′-8⅜″	4	3′-11¾″	4′-0½″	4′-0⅜″
5	2′-5¾″	2′-6½″	2′-6⅜″	5	3′-3¾″	3′-4½″	3′-4⅜″	5	4′-11¾″	5′-0½″	5′-0⅜″
6	2′-11¾″	3′-0½″	3′-0⅜″	6	3′-11¾″	4′-0½″	4′-0⅜″	6	5′-11¾″	6′-0½″	6′-0⅜″
7	3′-5¾″	3′-6½″	3′-6⅜″	7	4′-7¾″	4′-8½″	4′-8⅜″	7	6′-11¾″	7′-0½″	7′-0⅜″
8	3′-11¾″	4′-0½″	4′-0⅜″	8	5′-3¾″	5′-4½″	5′-4⅜″	8	7′-11¾″	8′-0½″	8′-0⅜″
9	4′-5¾″	4′-6½″	4′-6⅜″	9	5′-11¾″	6′-0½″	6′-0⅜″	9	8′-11¾″	9′-0½″	9′-0⅜″
10	4′-11¾″	5′-0½″	5′-0⅜″	10	6′-7¾″	6′-8½″	6′-8⅜″	10	9′-11¾″	10′-0½″	10′-0⅜″
11	5′-5¾″	5′-6½″	5′-6⅜″	11	7′-3¾″	7′-4½″	7′-4⅜″				
12	5′-11¾″	6′-0½″	6′-0⅜″	12	7′-11¾″	8′-0½″	8′-0⅜″				
13	6′-5¾″	6′-6½″	6′-6⅜″	13	8′-7¾″	8′-8½″	8′-8⅜″				
14	6′-11¾″	7′-0½″	7′-0⅜″	14	9′-3¾″	9′-4½″	9′-4⅜″				
15	7′-5¾″	7′-6½″	7′-6⅜″	15	9′-11¾″	10′-0½″	10′-0⅜″				
16	7′-11¾″	8′-0½″	8′-0⅜″								
17	8′-5¾″	8′-6½″	8′-6⅜″								
18	8′-11¾″	9′-0½″	9′-0⅜″								
19	9′-5¾″	9′-6½″	9′-6⅜″								
20	9′-11¾″	10′-0½″	10′-0⅜″								

LIMITATIONS

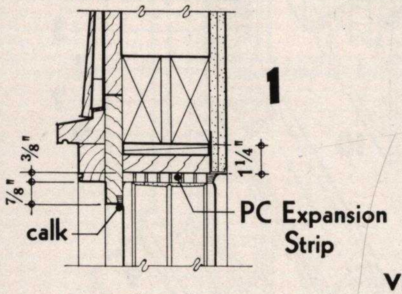
MAX. AREA 100 SQ. FT.
MAX. HEIGHT 10 FT.
MAX. WIDTH 10 FT.





DETAILS FOR EXTERIOR OPENINGS

WOOD FRAME



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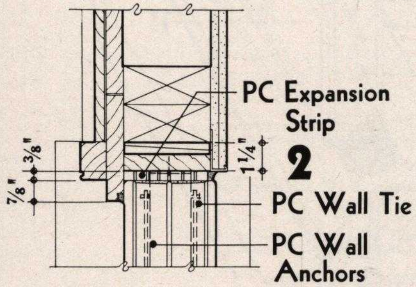

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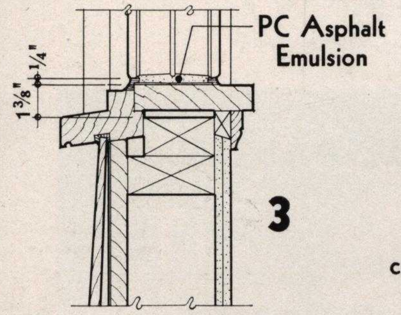

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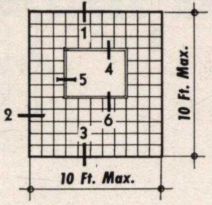
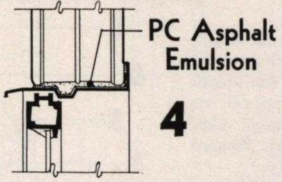
SIMPLE PANELS
100 SQ. FT. MAX. AREA



VENTILATOR DETAILS



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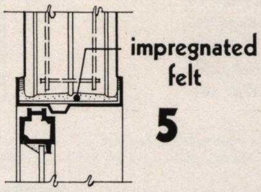

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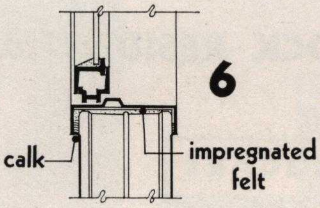
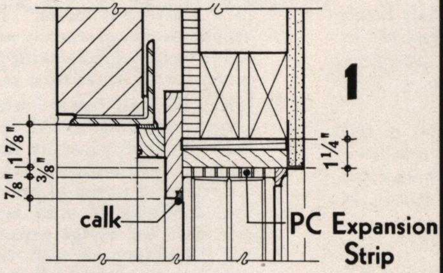


6

BRICK VENEER



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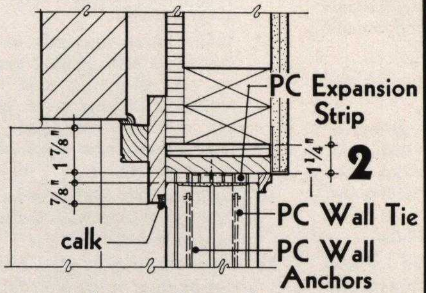

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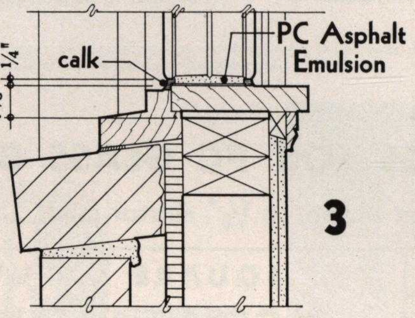

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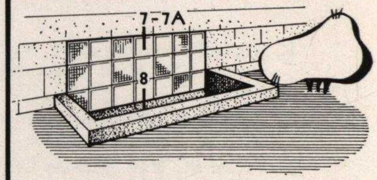
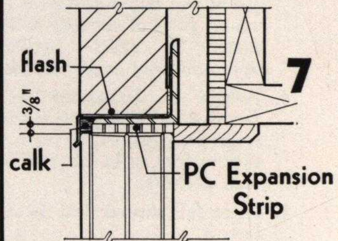
BASEMENT PANELS





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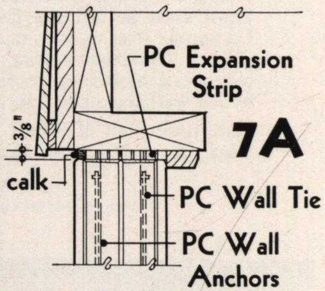

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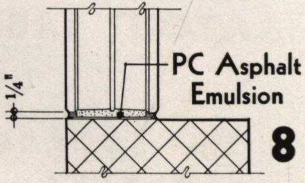

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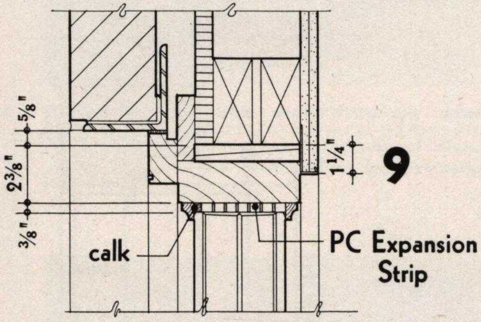

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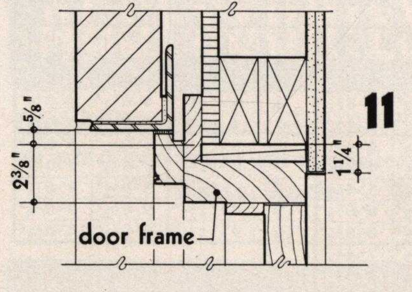

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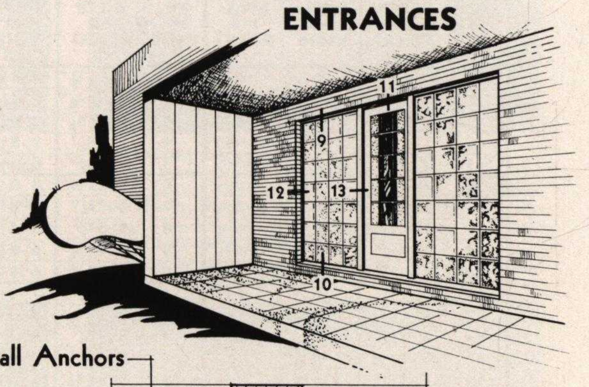
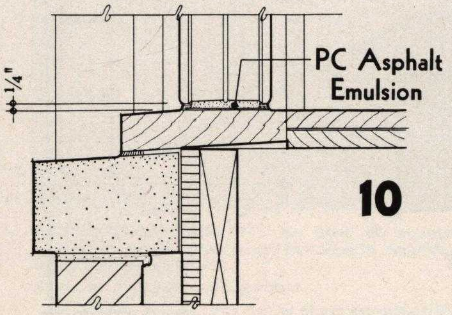
ENTRANCES





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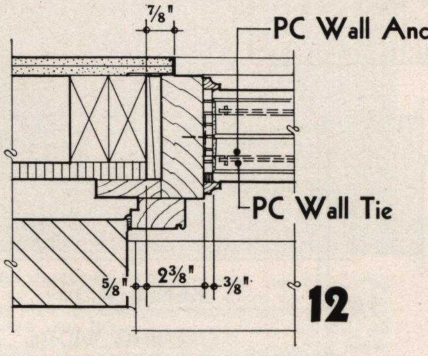

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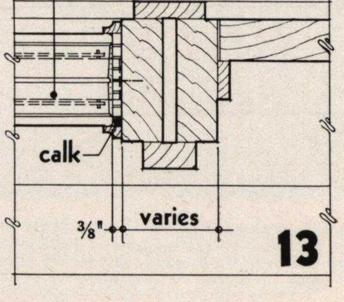
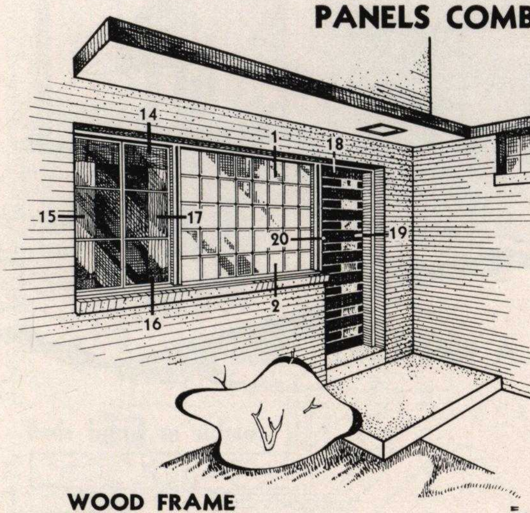
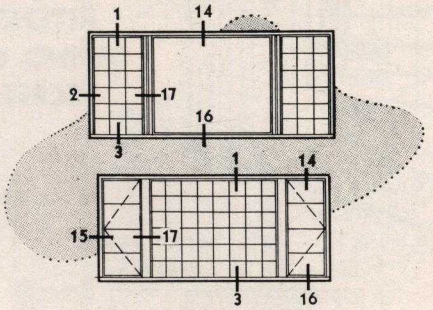


13

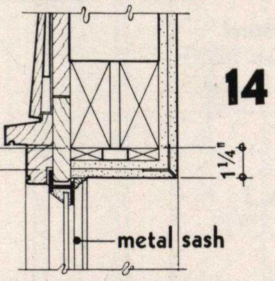
DETAILS FOR EXTERIOR OPENINGS

PANELS COMBINED WITH WINDOWS AND DOORS





WOOD FRAME



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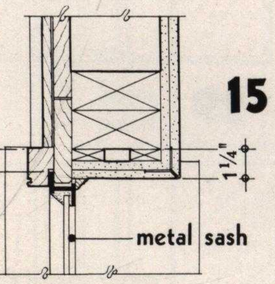

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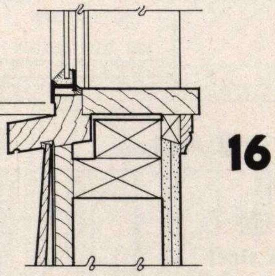

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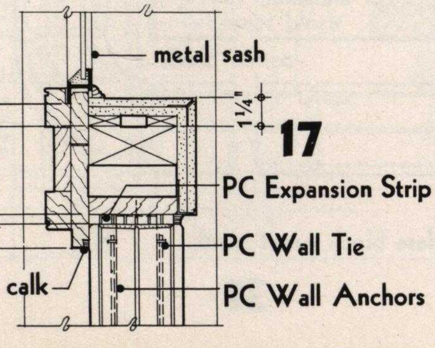

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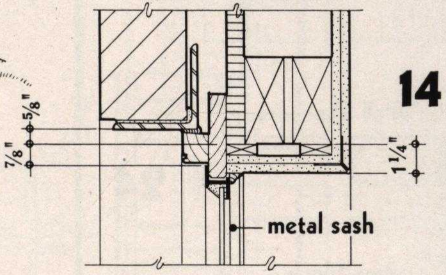
BRICK VENEER



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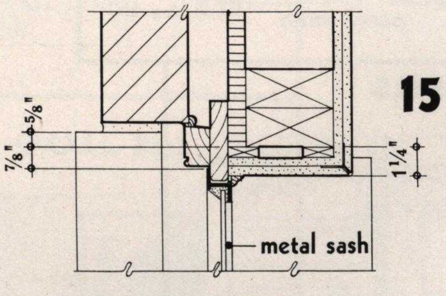

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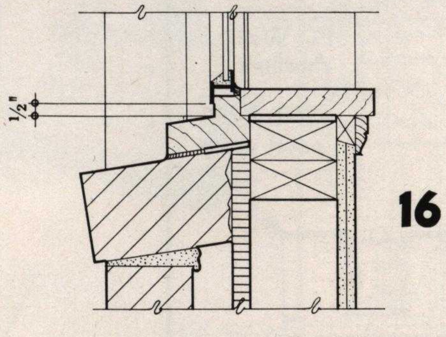

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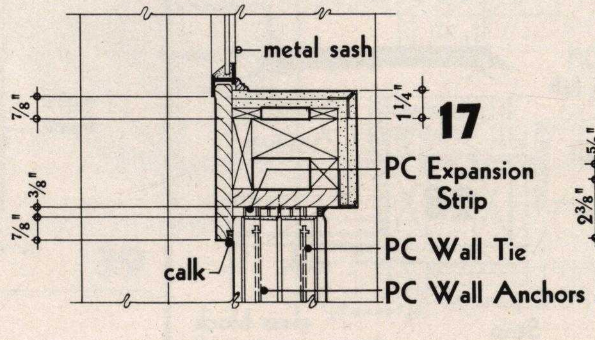

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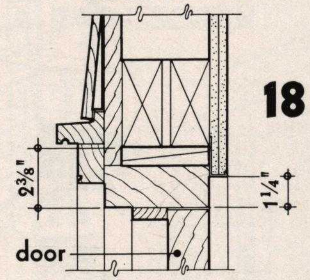
WOOD FRAME



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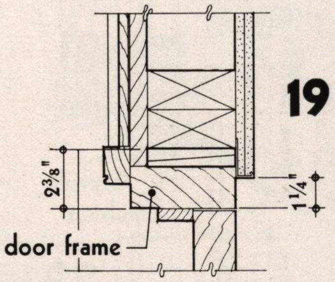
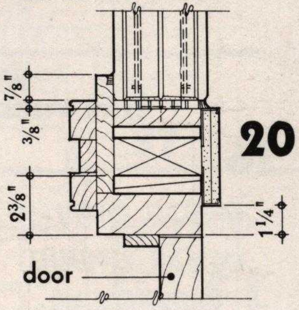


19

TYPICAL FOR WOOD FRAME OR BRICK VENEER



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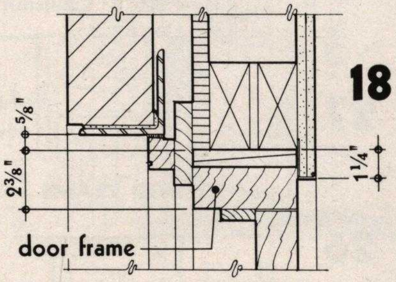
BRICK VENEER



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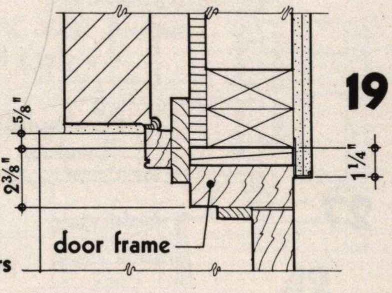

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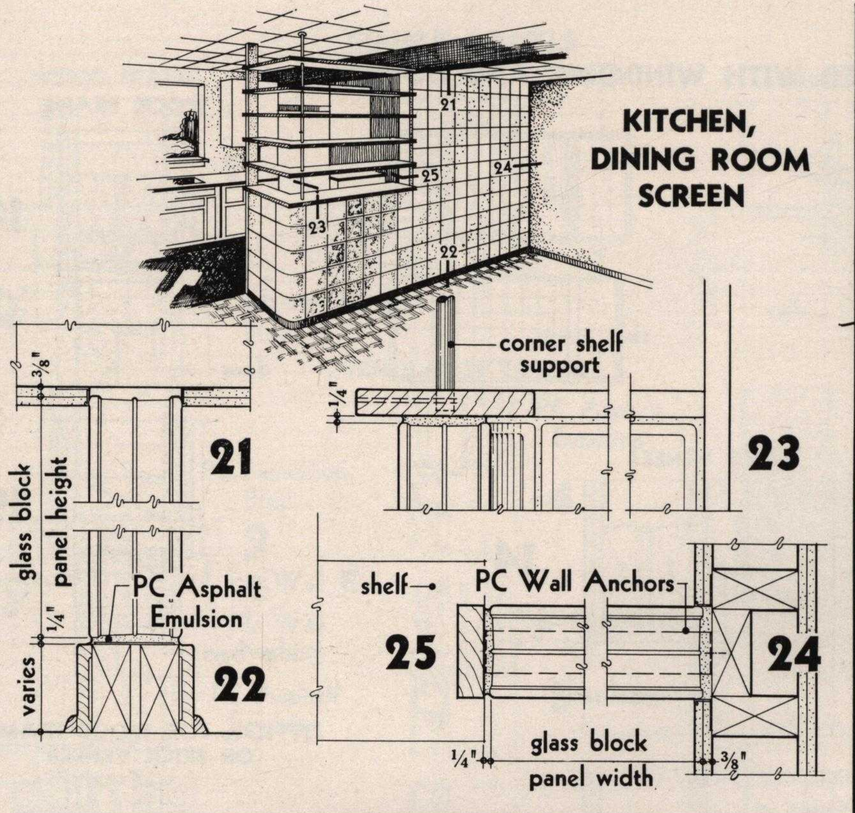
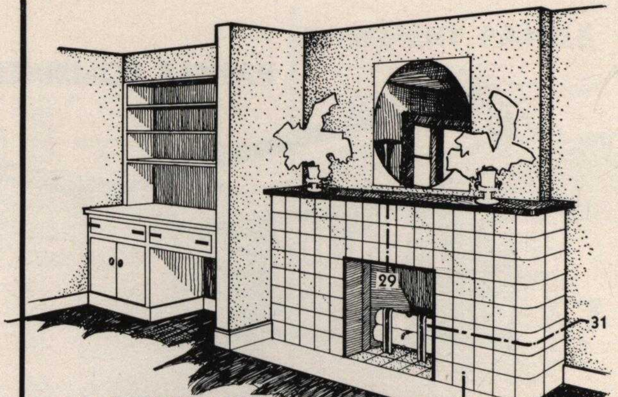
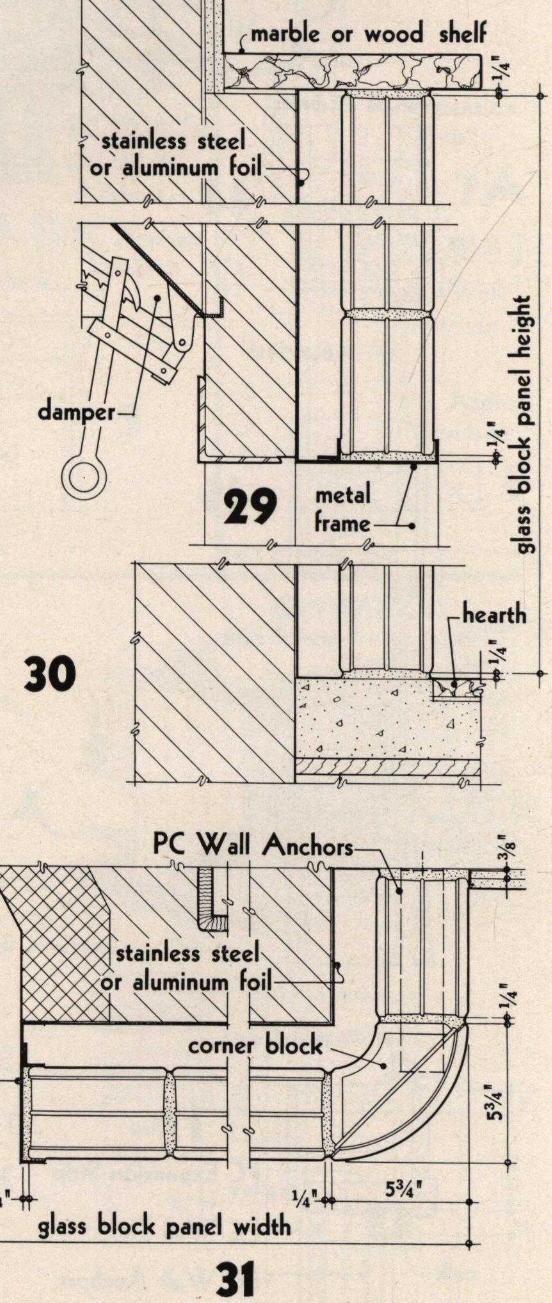
DETAILS FOR SPECIAL EXTERIOR AND INTERIOR USES

KITCHEN, DINING ROOM SCREEN

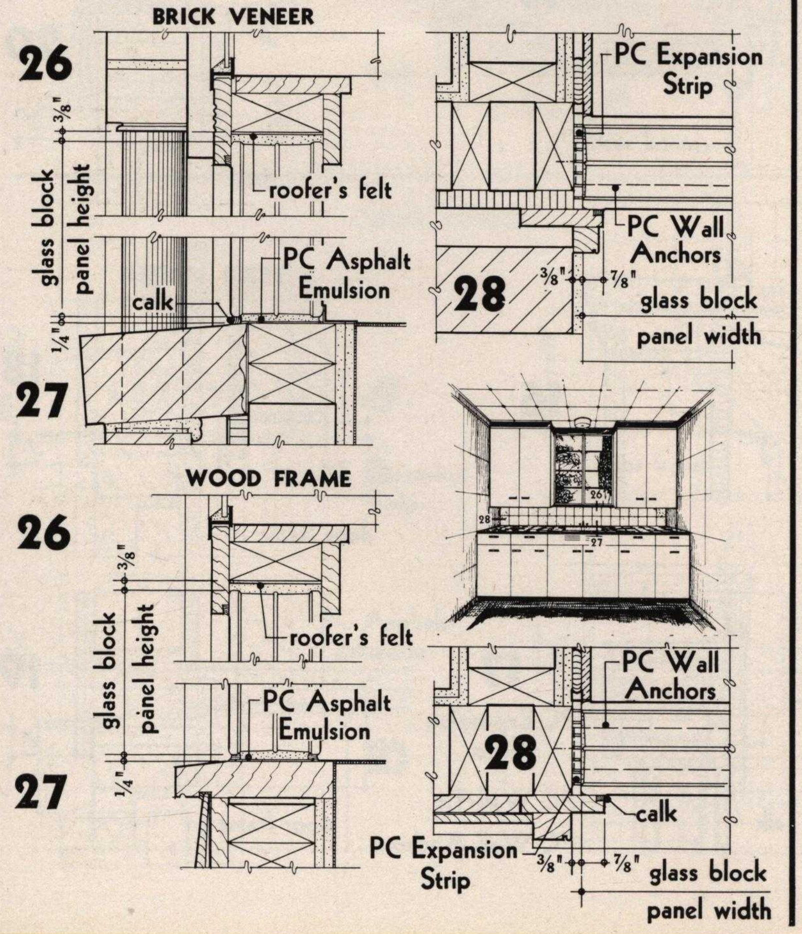


A FIREPLACE



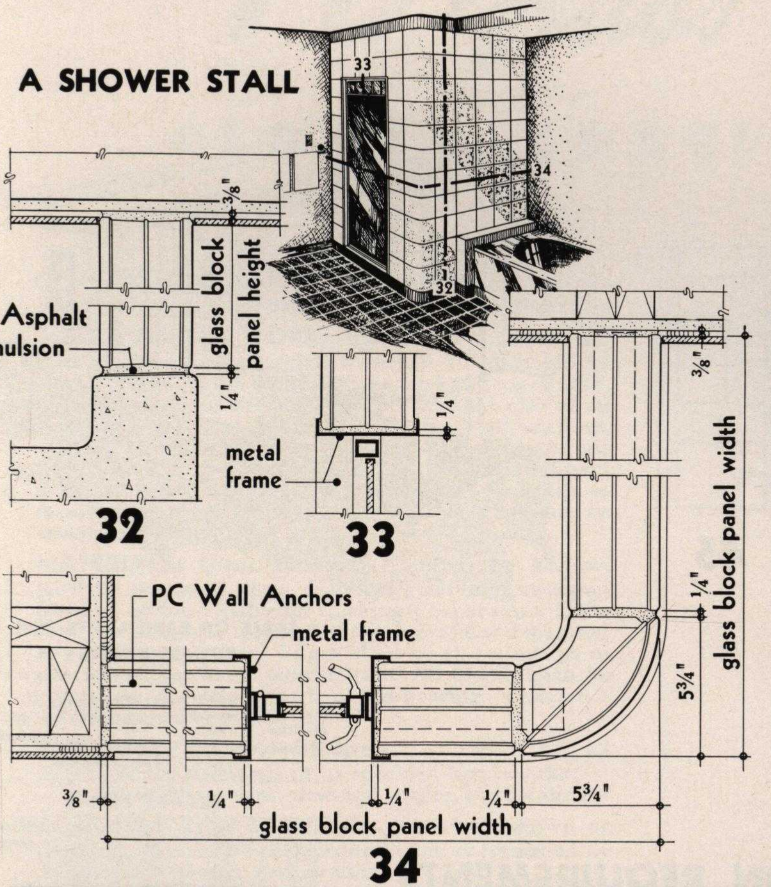


WORKSPACE PANELS

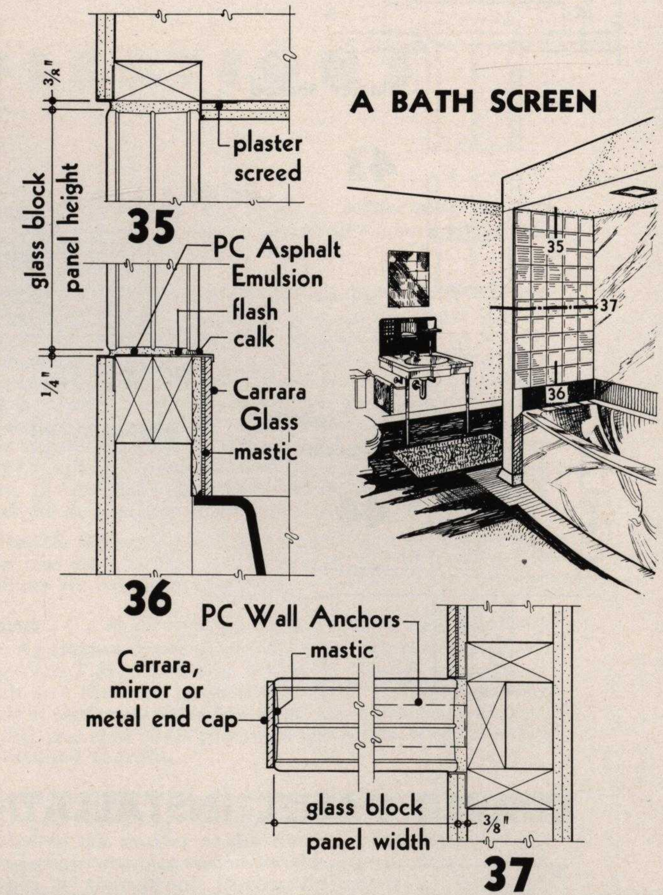


DETAILS FOR SPECIAL INTERIOR USES

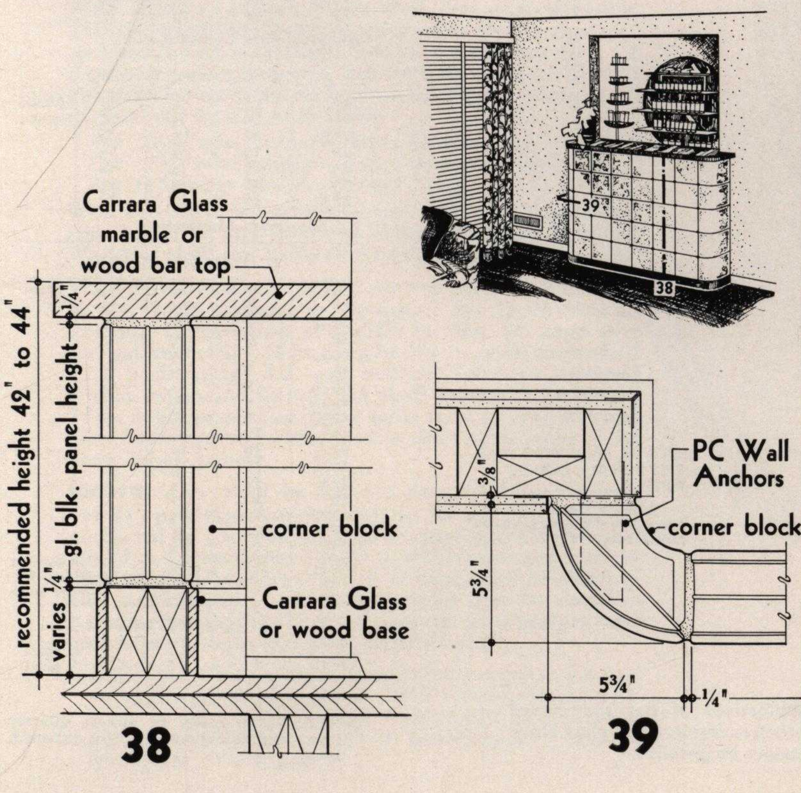
A SHOWER STALL



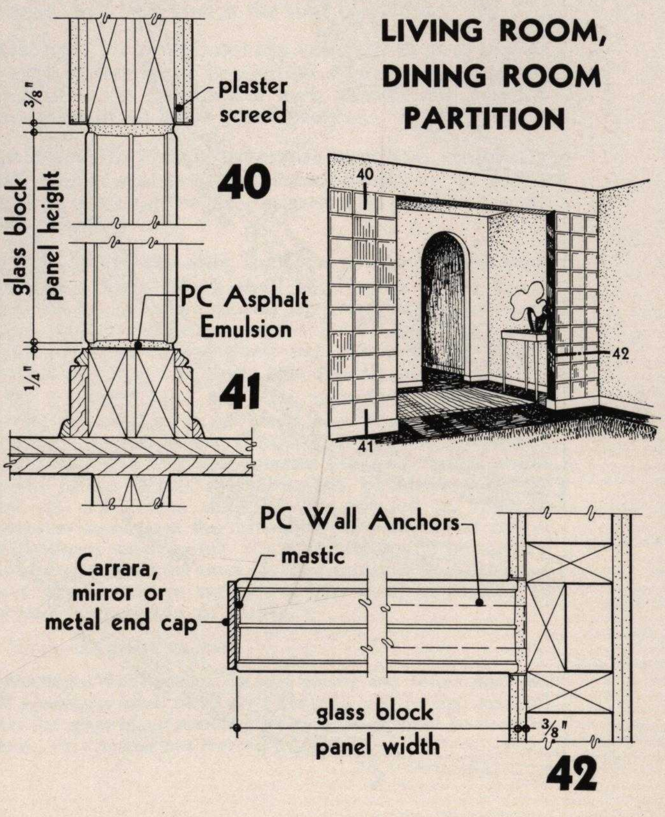
A BATH SCREEN



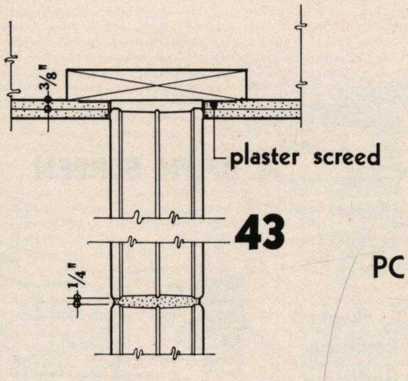
A SMALL BAR



LIVING ROOM, DINING ROOM PARTITION



DETAILS FOR INTERIOR PARTITIONS



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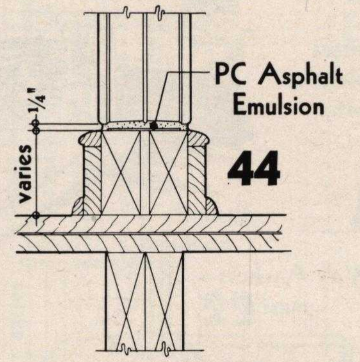

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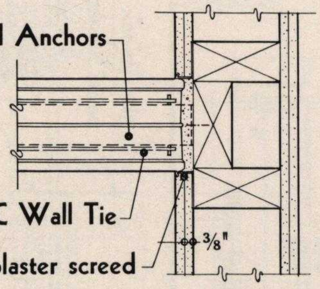

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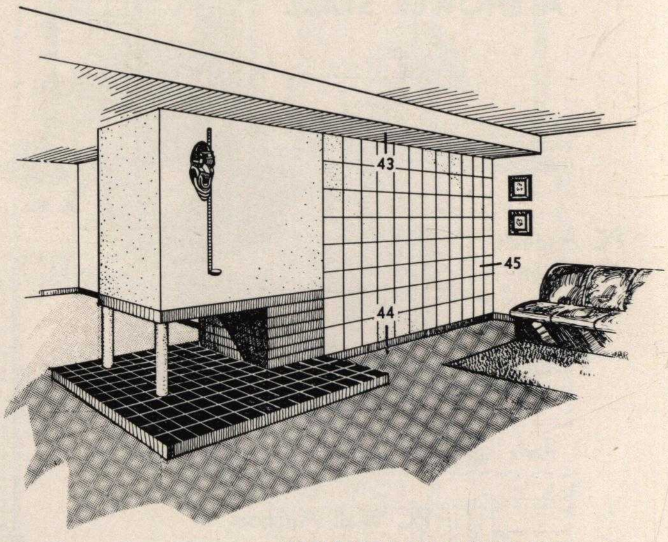
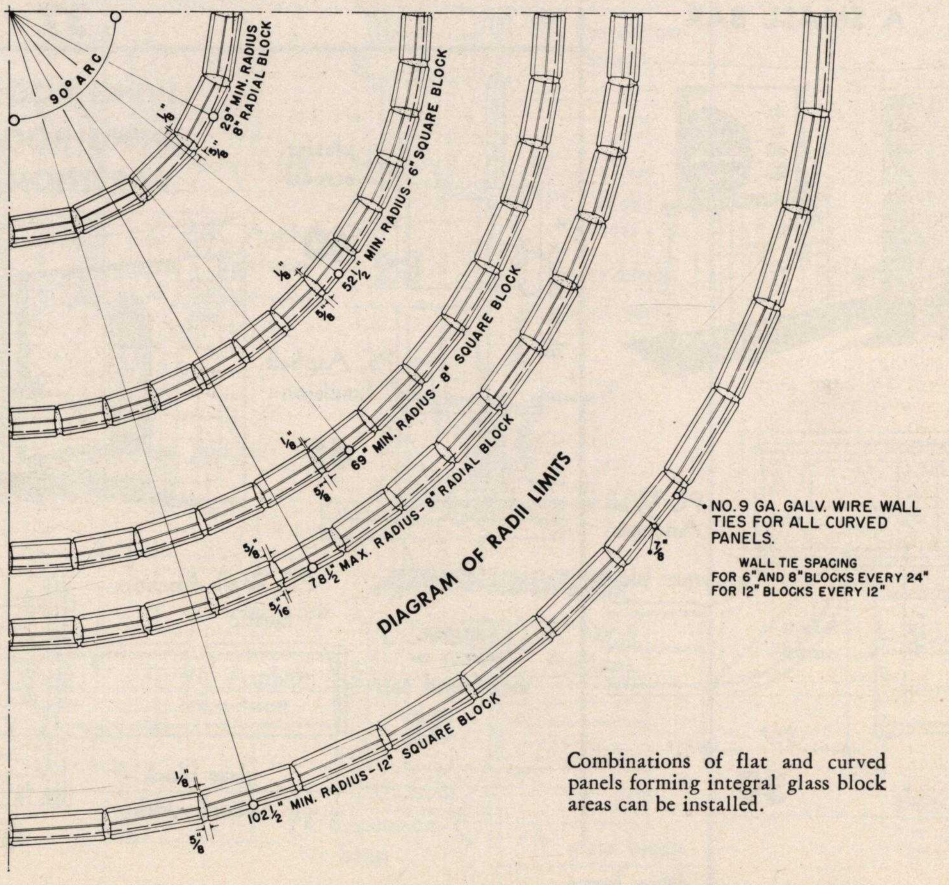


CURVED PANEL INSTALLATION REQUIREMENTS



90° ARC
29" MIN. RADIUS 8" RADIAL BLOCK
52½" MIN. RADIUS-6" SQUARE BLOCK
69" MIN. RADIUS-8" SQUARE BLOCK
78½" MAX. RADIUS-8" RADIAL BLOCK
102½" MIN. RADIUS-12" SQUARE BLOCK
DIAGRAM OF RADII LIMITS
1/8"
5/8"
5/16"
7/8"
NO. 9 GA. GALV. WIRE WALL TIES FOR ALL CURVED PANELS.
WALL TIE SPACING FOR 6" AND 8" BLOCKS EVERY 24" FOR 12" BLOCKS EVERY 12"

Combinations of flat and curved panels forming integral glass block areas can be installed.

TABLE OF RADII LIMITS FOR CURVED PANELS

Outside Radius Inches	Number of Block in 90° Circular Arc	Joint Thickness in Inches		Remarks
		Inside	Outside	
6″ SQUARE BLOCK				
52½	13	⅛	⅝	Minimum
56¼	14	⅛	9/16	
56¾	14	3/16	⅝	
60	15	⅛	9/16	
61	15	3/16	⅝	
63¾	16	⅛	½	
65	16	¼	⅝	
67½	17	⅛	½	
69	17	¼	⅝	
71¼	18	⅛	7/16	
73	18	5/16	⅝	
No Maximum Limitations.				
8″ SQUARE BLOCK				
69	13	⅛	⅝	Minimum
74	14	⅛	9/16	
74¾	14	3/16	⅝	
79	15	⅛	½	
80	15	¼	⅝	
84	16	⅛	½	
85¼	16	¼	⅝	
No Maximum Limitations.				
8″ RADIAL BLOCK				
29	5	⅛	⅝	Minimum
34	6	⅛	⅜	
34¾	6	⅜	⅝	
39	7	⅛	¼	
40¾	7	½	⅝	
44	8	⅛	⅛	
46½	8	⅝	⅝	
49½	9	3/16	⅛	
51¾	9	⅝	9/16	
55	10	¼	⅛	
57¼	10	⅝	½	
60½	11	5/16	⅛	
62½	11	⅝	7/16	
66	12	⅜	⅛	
67¾	12	⅝	⅜	
71½	13	⅜	⅛	
73¼	13	⅝	5/16	
76¾	14	7/16	⅛	Use Square Block for larger radii
78½	14	⅝	5/16	
12″ SQUARE BLOCK				
102½	13	⅛	⅝	Minimum

No Maximum Limitations.

NOTE: Radii given to closest quarter inch; joint thickness to closest sixteenth inch.

PC Glass Blocks

CLOSED SPECIFICATIONS

GENERAL CONDITIONS: The "General Conditions" of the contract are a part of these specifications.

SCOPE OF THE WORK: This contractor shall furnish all labor and materials to install all glass blocks where shown on the drawings or specified hereinunder. This shall include the furnishing and installation of all expansion joint strips, felts, wall ties, wall anchors, calking, asphalt emulsion, and other labor and materials necessary for a complete installation. This contract does not include the preparation of the structure to receive the glass block panels, except as hereinafter specified.

MATERIALS: Glass Blocks . . . shall be hollow, partially evacuated, clear, colorless glass units as manufactured by the Pittsburgh Corning Corporation. Units shall be "all glass," formed of two halves fused together at a high temperature. Edges shall be so formed as to provide a "key-lock" mortar joint. All blocks shall be coated on the edges with a grit-bearing, water-and-alkaline-resistant plastic material.

Patterns — Sizes — Shapes . . . shall be as shown on the drawings or as specified hereinunder:
(Indicate PC patterns, sizes and shapes, and locations)

Expansion Joint Materials . . . where shown or required, shall be PC Expansion Strips as furnished by Pittsburgh Corning Corporation.

Asphalt Emulsion . . . where shown or required, shall be PC Asphalt Emulsion as furnished by Pittsburgh Corning Corporation.

Wall Ties . . . shall be PC Wall Ties of steel double wire mesh formed of two parallel wires (No. 9 gage) 2″ on centers with electrically welded cross wires (No. 14 gage) at regular intervals, and shall be galvanized. Wall ties shall be installed in horizontal mortar joints of all glass block panels as follows:

For 5¾″ size blocks — Every four courses.
For 7¾″ size blocks — Every three courses.
For 11¾″ size blocks — Every course.

Wall ties shall run continuously with ends lapped not less than 6 in. and shall run from end to end of panel. Wall ties shall not bridge expansion joints.

Wall Anchors . . . where shown on drawings shall be PC Wall Anchors as furnished by the Pittsburgh Corning Corporation and shall be No. 20 gage perforated steel strips 24 in. long by 1¾ in. wide galvanized after perforating. All wall anchors must be crimped within expansion joints, and shall generally be placed 24 in. apart, occurring in the same joint as wall ties and must be completely embedded in the mortar joint of the glass block panels.

Mortar . . . shall be one (1) part Portland Cement, one (1) part lime, and four (4) to six (6) parts sand all measured by dry volumes, and *integral type waterproofer,* mixed to a consistency as stiff as will permit good working and shall be drier than for ordinary clay brickwork. For interior panels the waterproofer may be omitted. Admixtures in the form of setting accelerators and anti-freeze compounds shall not be used.

NOTE: At the discretion of the architect or engineer, a mortar prepared from masonry cement of low volume change, incorporating metallic stearate type waterproofer, and mixed in accordance with manufacturer's recommendation may be specified as an alternate.

Cement . . . shall be Type I conforming to the Standard Specifications for Portland Cement (A.S.T.M. Designation: C150-46).

Lime . . . shall be a high-calcium type* hydrated lime or masons' hydrate conforming to the Standard Specifications for Normal Finishing Hydrated Lime (A.S.T.M. Designation: C6-46T); or a well-slaked quicklime putty conforming to the Standard Specifications for quicklime for Structural Purposes (A.S.T.M. Designation: C5-26). Hydrated lime shall be soaked at least two (2) hours, and quicklime shall be slaked not less than forty-eight (48) hours and screened prior to use in mortar. Where lime in the form of putty is used, the amount specified shall be interpreted as the actual volume of putty.

*NOTE: Hydrated lime of the magnesia or dolomite type may be used provided that not less than 92% of all active ingredients are completely hydrated.

Sand . . . shall conform with Standard Specifications for Aggregate for Masonry Mortar, Intermediate Grading (A.S.T.M. C144-44), but shall contain particles of such size that not more than twelve (12) per cent by weight shall pass a No. 100 mesh sieve, and one hundred (100) per cent shall pass through a No. 8 mesh sieve, as defined therein.

Waterproofer . . . shall be Pittsburgh Plate Glass Co. type NV-3389 (metallic stearate type.) It shall be added to the mortar at the time of mixing and in the proportion recommended by the manufacturer, except where a waterproof Portland Cement or prepared masonry mortar is used. In the latter cases, no waterproofer shall be added at the time of mixing.

Calking . . . mastic calking compounds as approved by the architect shall be applied evenly and to the full depth of recess provided at both interior and exterior perimeters of all glass block panels.

FLASHINGS: Unless otherwise specified, contractor shall furnish and install in locations shown or where required, flashings as are necessary to provide a complete installation.

INSTALLATION: Sills shall be heavily coated with asphalt emulsion which shall be allowed to dry for at least two hours before mortar is placed. Expansion joint strips shall be adhered to the jambs and head with asphalt emulsion, and shall run continuously in the expansion space, and must rest directly on the sill.

All mortar joints must be completely filled with mortar and *shall not be furrowed.* Mortar must not bridge across expansion joints. Blocks shall be laid up plumb, true to line, and with one-quarter (¼) in.* visible width mortar joints. While mortar is still plastic and before final set, the joints shall be compressed to a depth necessary to expose the corners of the blocks as sharp, clean lines, and joints shall immediately be tooled slightly concave and smooth. The number of courses of glass blocks laid in successive lifts shall be limited to prevent compaction of joints.

*Unless otherwise specified.

CLEANING: While mortar is still plastic and before final set, this contractor shall clean off all mortar and foreign material from the glass block surfaces. Final cleaning shall be done by others, after mortar has reached its final set.

PC Glass Blocks

Manufactured by **PITTSBURGH CORNING CORPORATION,** *632 Duquesne Way, Pittsburgh 22, Pa.*

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